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THE MAGAZINE FOR SAFER LIVING

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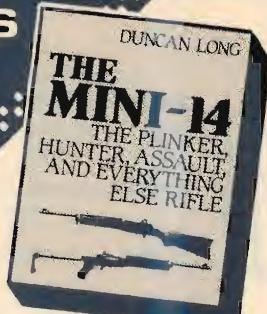
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by Leroy Thompson

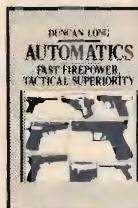
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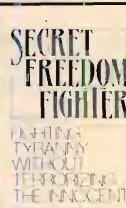
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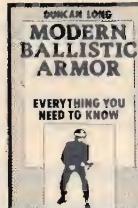
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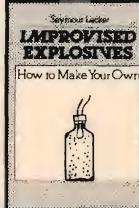
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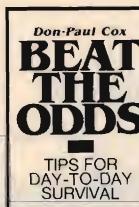


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GUIDE

THE MAGAZINE FOR SAFER LIVING

VOLUME 9, NUMBER 2 FEBRUARY 1987

COVER:

With several articles, this issue focuses on the technology, types, organization and tactics of terrorism, and the forces assembled to combat terrorism. See pages 8, 26, 32, 34, 37 and 44. Props courtesy of Federal Ordnance, El Monte, California (Photos by Jim Benson).



Page 28



Page 75

- 6 Mountain Medical Kit**
Suggested contents and containers for mountain emergencies.
- 8 To the Point**
ASG's coverage of terrorism, focus of this issue.
- 10 Survival Line**
U.S. gold coins, national forest dangers, ozone layer depletion.
- 12 Tear Gas Sentry**
A nasty surprise for home, business intruders.

14 New Products Equipment of interest to the self reliant.	28 LRRP Security Services Production and training of outstanding-quality Timbershepherd dogs.
16 NOVA .45 Custom .45 ACP pistol from LaFrance Specialties.	32 Crusaders, Criminals, Crazies Three types of terrorist: war of a different kind.
20 Book Reviews Military history calendar, gun parts catalog, anti-terrorist ops manual.	34 Commands, Columns, Cells The terrorist underground, its structures and organizations.
22 Magnum Air Rifle Chinese Model TS-45 pellet rifle with 800 fps velocity.	37 Tactics Of Terror Unconventional tactics used against democratic governments.
24 Emergency Snow Camo Use of bed sheets, pillow cases for improvised concealment.	43 Survivalist Directory Confidential listings for survivalists seeking communication.
26 Technology Of Terrorism How technology provides today's terrorists with arms, transportation, targets.	44 Counter-Terrorism Forces Delta Force, SAS, GSG-9, other anti-terrorist groups.
	47 RF/1 Gas Mask Charcoal cloth gas mask with Bolle goggles.



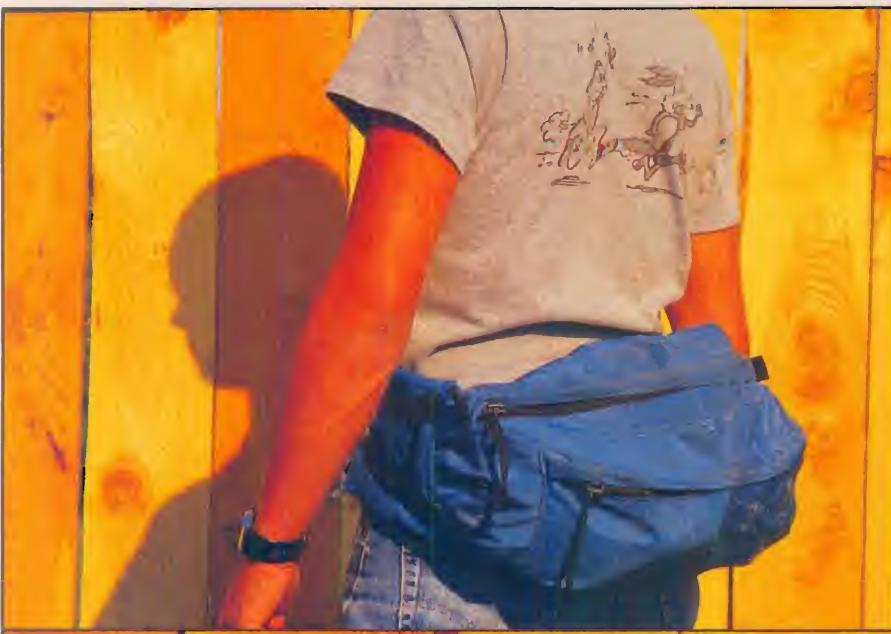
Page 50

- 49 Nightwatch**
Battery-operated, tripwire-activated intruder alarm.
- 50 SIG P 220**
A potent imported pistol in .45 ACP, 7.65/9mm, .38 Super.
- 52 A.L.S. Maps**
Maps, charts, guides for air, land, sea travel planning.
- 54 Auto Survival Kits**
Do-it-yourself kits for unexpected breakdowns.
- 58 Concealed Communications**
Double transposition cypher for maximum security communications.
- 60 Swarovski Scopes**
Cobra, AL rifle scopes: new for hunters, law enforcement.
- 64 Beeman/FWB MK II**
A hot target/sporting pellet pistol that's super accurate.
- 73 Mail Call**
Letters from the survivalist community.
- 74 Classified Ads**
Messages of interest to survivalists.
- 75 Night Vision**
AN/PAS-5 infrared goggles, light source: seeing in the dark.
- 76 AIDS Update**
Latest information on this deadly disease threat.

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LEFT & LEFT BELOW—The fanny pack first aid kit the author carries with two compartments. All medications and life support items are placed in one compartment. Bandaging, steri strippling and splinting materials are in the other compartment. The fanny pack is a Frostline do it yourself kit that was adapted with elastic pockets into a first aid kit.

BELOW—The first aid kit can be scaled down to an individual kit to meet your individual needs. This is a designated first aid kit case by Early Winters with many separate compartments. Although it is advertised as a "group" kit it only has room for an individual kit. Most contents in prefab first aid kits must be adjusted to meet your needs.



RIGHT—The cervical collar (in plastic cover to keep clean) can be folded over Q-tips and Scalpel to protect them from breakage. Medications should be placed in water tight containers and liquid such as Benzion placed in leak proof non-breakable bottles. The thermometer can be placed in its plastic case in the finger splint for protection. Ointment should be in a plastic tube or the metal tube placed in a plastic baggie to prevent salve from getting on other first aid items. Instant cold compresses should be left in their cardboard boxes even though bulky to prevent premature activation. The Oropharyngeal airway in the foreground is the easiest type to keep clean and a suction tube can be inserted through it still allowing the victim to breathe if needed.



Remote Emergencies:

Mountain Medical Kit

A well equipped first aid kit is second only to the knowledge of how to use it . . .

By Larry Wells

Larry Wells has conducted and instructed survival training programs since 1970. He is co-author of You Can Stay Alive, a concise survival manual, \$7.95, and author of Leather Makin', a manual of primitive and modern leather skills, \$10.95, both published by Horizon Publishers and available from P.O. Box 431, Idaho Falls, ID 83402—the editors.

THE BONE protruding from the young man's moist red Levis pulled the student's blood to her feet. Her face became as pale as that of the victim lying on the ground.

Unknown to the student, the "victim" was an artistic creation for the purpose of showing wilderness survival students how to react to medical emergencies in the wilderness.

When the exercise was over two lessons would be apparent: 1) It is very difficult to treat and transport a seriously injured person in remote, rough terrain, and 2) A well equipped first aid kit is second in value only to knowledge of how to use it in remote medical emergencies.

A first aid kit should be designed to meet one's individual medical needs, medical knowledge and anticipated medical problems of the environment in which you live.

This suggested first aid kit was compiled over a 15-year period of wilderness survival training programs throughout the western states and Mexico. First aid knowledge of the staff using the kit was at Emergency Medical Technician level, some with extended clinical experience in Emergency Room and/or ambulance equipment treatment. Quantities are for a group size of 15 for 30 days.

If injuries occurred they usually required evacuation over rugged terrain to reach an area where a helicopter could take the person out. The contents are based on those circumstances and the need to treat injuries and disease encountered during a Stone Age living experience that involved hiking 200 to 300 miles in 30 days.

Medications listed are those found to be the most commonly needed. **Caution** should be exercised when giving or taking

any medication. Question the patient as to allergies and past medication history. If there is any question whether they can safely take the medication, **DO NOT GIVE IT**. Remember, an adverse reaction may occur in spite of the individual's past history. Only give the proper dosage. More is not better.

In all likelihood your family doctor will be happy to work with you in developing your own kit. If you explain why the prescription medications are needed and keep the quantities requested as listed, the doctor will probably issue the needed prescriptions.

Check with your pharmacist regarding shelf life, storage conditions and signs of decomposition.

First and foremost one must achieve proficiency in basic first aid if the kit is to have any real value in an emergency. Using any tool without adequate training is often fruitless and occasionally dangerous. If you lack the training to recognize common disease processes and indications for use of some of the medications, do not use them.

SUPPLIES

Cervical collar—1—medium size. The first aider should have training to apply. A collar is a necessity to stabilize and transport a victim with suspected neck injuries.

Oropharyngeal airway—1—size #4, 1—size #2. Training is required to insert an airway. They are seldom used but are essential when transporting an unconscious victim.

Gauze pad, sterile—12—4-inch x 4-inch individually wrapped pads. These are sterile dressings for large wounds or burns.

Gauze pad, sterile—12—2-inch x 2-inch individually wrapped pads. Sterile dressings for small wounds etc.

Kerlex—2—four-inch roll used to anchor sterile dressing. It may be reused and does not have to be sterile.

Kerlex—2—two inch rolls used as above.

Tape—1—2-inch roll non allergenic paper tape for attaching anchor bandages and dressings. Can be split to one inch if needed.

Tape—1—one-inch roll cloth tape. Used to transport ankles or wrists. Works well for butterfly stitching. (see Butterfly Stitching, Survival Guide, February 1984, page 44.)

Bandaids—100—one inch. Minor wounds and friction blisters caused by hiking. Some staff members prefer bandaids over Moleskin, Tough Skin or Second Skin for blister treatment. Bandaids will cushion the blister and unlike moleskin will not pull the blistered skin off when removed. Bandaids are a great cure all for young children's "wounds."

Triangle Bandage—1. Triangle bandages can be used for arm slings and for a number of anchor bandages on different parts of the body plus they are also folded into a cravat bandage.

Scissors—1 "Slip n Snip" or any small pair of scissors.

Needle & Thread—3 medium needles and one small spool of strong thread. Needles are a much used item for the removal of splinters, stickers and draining of friction blisters. Thread is for butterfly stitching and mending of clothes.

Hypodermic needles—3—18 gauge. Removing splinters and opening minor infections.

Safety pins—8—medium and large. Used to fasten anchor bandages, slings and torn clothing.

Tweezers—one pair, pointed to remove splinters and thorns. Most commercial tweezers must have the point filed to reach maximum effectiveness. (Some medical offices use disposable instruments—check with your doctor.)

Moleskin—2—6-inch x 6-inch pieces. Moleskin is used to cushion "hot spots" on feet to prevent blisters when hiking. Some staff members prefer "Spenco Skin Guard Padding" in place of Moleskin.

Second Skin—1—3-inch x 13-inch piece. Second skin is used to cover burns, abrasion areas and friction blisters. This product dries up in storage so don't buy more than needed.

Steri Strips—6—pkgs 1/8-inch x 3-inch. Used for closing lacerations without suturing (see Butterfly Stitching, Survival Guide, February 1984, page 44).

Steri Strips—6—pkgs 1/4-inch x 3-inch. Same as above for larger lacerations.

Cotton Q Tips—24—Sterile, individually wrapped. Swabs are used to put Benzoin on the skin to increase the adhesiveness of the steri strips. They are also for cleansing wounds and eyes.

Ace Bandage—2—4-inch. A support bandage on wrist, ankle or knee. It also makes a great pressure bandage to stop bleeding. (Just enough pressure to stop bleeding, don't cut off circulation!)

"Spenco" Velcro Ankle Wraps—2. Excellent for ankle or wrist support. This product allows the victim of a sprained ankle to hike if necessary.

Finger Splint—2. A strip of foam padded aluminum 1-inch x 10-inch works well as it can be shaped over the finger and yet used to splint a fracture in the hand. The finger splint is used quite often to aid the healing of lacerated fingers. It prevents bumping or bending which tears open wounds.

Ladder Splint—1. While limbs or sticks can be used from the environment to splint arms, some breaks require a splint that can be formed. (Angulated or displaced fractures in the wrist, elbow and shoulder.) Plaster casting material makes excellent formed splints, but required water. Have your doctor show you how and suggest size and quantity.

Sanitary Napkin—2. Used as a dressing for pressure bandage on severe bleeding.

Tampons—6. Stress seems to bring on the unexpected, even if preventive medication has been taken.

Thermometer—2—one rectal fever and one rectal hypothermia. Most fever thermometers will not read low enough for hypothermia readings and hypothermia thermometers often do not read high enough for fever. heat stroke or heating water to thaw frostbite. There should be a range of 70 to 110 degrees. The temperature must be taken rectally to be accurate. Carry the thermometer in a protective, padded cover. The finger splint can be used if nothing else is available.

Scalpel Blade—one #11—Scalpel blades are used in lancing blisters and removing large splinters. The #11 can be

(Continued on page 57)

TO THE POINT

ASG's terrorism coverage . . .

EDITORIAL

PUBLISHER
Tom McMullen

EDITORIAL DIRECTOR
Bob Clark

EDITOR
Jim Benson

ASSOCIATE EDITOR
Bud Lang

CONTRIBUTORS

Ken Fabian
Richard Garrison
Robert S. McKay
Jim Pettigrew Jr.
Michael Pietrantoni
W. Ed Poe
Robert C. Smith
Larry Wells
Carl H. Yaeger
Ralph Zumbro

PHOTOGRAPHIC SERVICES
Martin Hasa

GRAPHICS

DESIGN DIRECTOR
G. Wm. Tietgen

ART DIRECTOR
Anges Tam

DESIGN ASSISTANT
Kay Green

ADVERTISING

ADVERTISING SALES
MANAGER
Bruce Bogart

ADVERTISING SALES
REPRESENTATIVES
Gary Mattson
John Nething
Greg Gill

ADVERTISING COORDINATOR
Cathy Giannavola

McMULLEN PUBLISHING, INC.

CHAIRMAN
Thomas M. McMullen

PRESIDENT
Kenneth N. Yee



THIS issue of *American Survival Guide* is concentrating on terrorism with five articles dealing with the technology, types, organization and tactics of terrorists and the counter-terrorist forces created to fight them.

We are carrying articles regularly on the subject of terrorism, since we consider terrorism to be a serious threat to the survival of the democratic nations of the world and to many of their citizens. We also believe there is considerable reader interest in the subject. And we want to cover every aspect of terrorism, including articles on most known terrorist groups and/or organizations in the United States and abroad, concentrating on those which present a threat to the U.S. and the other democracies in the world.

But for those of you readers not particularly concerned with the threat of terrorism in today's world, don't despair. We're not moving away from our staple of solid, how-to articles dealing with every facet of survival, be it in the wilderness, at sea, on the highways, in the inner-cities, in natural or human-caused disasters, etc.

Each month, we try to provide a wide variety of features and product information so that we can have at least something of interest to every reader. We're trying to achieve a balance of subject matter which we think readers will find informative, interesting and worthwhile.

We're growing, and we're working to make this magazine better with every issue. Like all human endeavors, though this magazine has its flaws and weaknesses; we occasionally make mistakes, bloopers. But all in all, we think we're on

the right track. We rely on our readers to let us know.

Unfortunately, we are unable, due to limited resources, to answer every piece of mail that comes in. At times the volume of mail is staggering. It's simply impossible to attend to every letter. We'd spend all of our time doing so. But rest assured that we do read every piece of mail we get, and we will make an effort to answer your letters if it's physically possible.

Whether or not we are able to answer your letters, however, we are definitely interested in learning what you think of the magazine and what you'd like us to cover. We get a lot of good ideas for articles this way. So feel free to write us.

Getting back to our terrorism coverage, as I said earlier, we are running articles on many different terrorist groups and organizations. One such article was "Private Armies" in our November 1986 issue. It briefly discussed the neo-Nazi Christians and some other right-wing extremists. This article generated several letters from Christian and right-wing survivalists complaining that it reflected negatively on them.

This article was in no way intended to cast aspersions upon Christians or Christian survivalists and survival groups in general. We will be carrying articles that may cause concern among individuals or groups of the same or similar racial/ethnic, religious or national backgrounds to those terrorists we are writing about. Let me state definitely here that when we carry articles on, say, Armenian or Palestinian terrorists, we are NOT talking about or pointing a finger at ALL Armenians, Palestinians or whomever. We will take pains to point out that we are discussing ONLY those individuals engaged in terrorist activities.

Terrorism is a highly controversial subject. One person's terrorist can be another's freedom fighter. We consider those individuals or groups who kill or injure people, terrify people, commit bombings and/or arson or otherwise destroy property through illegal acts and for political/religious/criminal purposes, to be terrorists. We think most of our readers will agree with this definition and will view the people committing these acts as terrorists, be they abortion clinic bombers or Lebanese Molsem kidnappers —*Jim Benson*.

START AT THE TOP



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Since its introduction in early 1986 the RWS Model 36 has been regarded as one of the finest Air Rifles-Dynamit Nobel has added to their "Magnum Family" of Precision Airguns.

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SURVIVAL LINE

U.S. gold coin production, marijuana growers' deadly booby-traps, depletion of the earth's ozone...

SURVIVAL writers have long urged survivalists to include "hard currency" (gold or silver), in their stockpile of long-term emergency supplies. The rationale behind this advice is that in a time of severe inflation or economic emergency, these assets will retain their value as barter currency, while paper money will become more useful for kindling than as legal tender.

In 1974, after a 41-year ban, it again became legal for U.S. citizens to buy, sell, and trade gold coins. Between then and now however the only gold coins available to Americans were minted in eight foreign countries ranging from the People's Republic Of China to South Africa.

The U.S. has now begun production of its own gold coin series—the Eagle. Eagles are minted in tenth-ounce, quarter-ounce, half-ounce, and one-ounce weights with face values of \$5, \$10, \$25, and \$50. They are sold at the current market price of gold with a premium of from 3 to 10 percent added by the dealer. Since their introduction last October, Eagle sales have far surpassed the initial Treasury Department production.

As an investment Eagle coins offer the only method of using gold coins in an individual retirement account, IRA. The new tax reform laws bar the use of foreign-minted gold in an IRA. For survivalists the Eagle is a safe way to add "hard assets" to their emergency stores, while at the same time investing in the U.S.

Backwoods Dangers—In April 1985, Survival Line reported on the growing danger to survivalists, campers, and hikers, posed by marijuana cultivators who use public land in the national forests. Since then, according to the U.S. Forest Service, the problem has become much worse. Booby-traps, vicious guard dogs, and armed growers have threatened and injured a number of people in the last few years. Forest Service records show about 400 incidents, mostly involving potentially lethal booby-traps, related to marijuana cultivation in the national forests. The booby-traps range from trip-wired hand grenades and pipe bombs to punji-stick pits and fish hooks set dangling at eye level.

According to federal authorities, nearly a million acres of national land are being used for the illegal cultivation of marijuana. All of the 156 National Forests are thought to have some level of marijuana cultivation, with those in California, North Carolina, Arkansas, Florida, Missouri, Kentucky, and Nevada having the largest

concentrations of pot plantations.

New Environmental Peril—Almost 1 million deaths and 40 million skin cancers in the U.S. over the next century. These are the chilling possibilities posed by a new report authored by the Environmental Protection Agency, EPA, concerning the depletion of the earth's ozone layer.

According to the report, a recently discovered expanding "hole" in the ozone layer could also, in addition to the above health effects, result in the acceleration of the "greenhouse effect"—a planet-wide warming trend with possible disastrous consequences.

The earth's ozone layer screens out harmful ultraviolet sun rays which can cause skin cancers and the breakdown of the body's immune system.

The EPA report cites the role played by manmade gases known as chlorofluorocarbons, in the breakdown of the ozone layer. The U.S. banned the use of chlorofluorocarbons in aerosol spray cans in 1978, but most of the countries in the rest of the world continue to use them. The EPA report calls for a worldwide freeze on the use of chlorofluorocarbons and similar gases in an effort to halt the deterioration of the ozone layer.

Amerika—Once again, just as they did with *Rambo* and *Red Dawn*, the Soviet Union and American "peace" groups are waging a propaganda war aimed at censoring what Americans can watch in their own homes. This time the target is the ABC mini-series *Amerika*, scheduled for airing this month. The show focuses on life in the U.S. after a Soviet takeover, and the manipulation of the United Nations by the Soviet Union.

The Soviets were initially successful in their efforts to prevent production of *Amerika* when, in January 1986, ABC held up production of the series in what appeared to be a response to Soviet criticisms and an implied threat against the network's ability to cover news stories in the USSR. That action by the network so outraged many members of the American public that ABC was deluged with letters, calls, and telegrams denouncing the ABC decision. The network quickly relented and began production of the series.

Realizing that they would be unable to stop the show the Soviets and American groups have recently been campaigning in an effort to force ABC to provide free air time for presentation of their "opposing views." •



INSTA-PUMP

Rechargeable water pump. Pumps up to 55 gallons on a single charge. Just set it down in water and turn it on. Cordless, completely submersible and perfect for pumping water from: a stream for drinking or showers, a waterlogged boat, clogged sink, trench, foxhole, or from wherever you don't want water. Ideal for outdoorsmen and the military. Includes 5 ft. of tubing, ni-cad batteries and charging unit. High impact, acid resistant case with carrying strap. Only 6" tall. Weighs 11 ozs. ASGQ05-1707. \$39.95



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Designed for survival situations where soldiers or outdoorsmen need about one quart of heated water and cost is not the issue. Raise the temperature of the water in your full canteen as much as 158°F (70°C). This Scalder Canteen Heater will raise it in about one minute and hold it there for an extended period of time. Total heat output is about 56,000 calories. Chemically operated, non-toxic, silent, smokeless, and flashless. Fits the official Israeli 28 oz. plastic canteen and other nations' canteens with 1½" outside diameter threaded necks. It will not fit the U.S. Army canteen. For extreme emergencies and not reusable, so use only when absolutely necessary. Do not leave where children can handle and pull the grenade-like pin. Can cause serious burns if used other than directed. Measures 1x7¾". Each weighs 1½ ozs. Made in Israel.

ASG05-1040	M123 Scalder Canteen Heater	..... \$49.95
ASG05-1035	Two M123's in a Canvas Waist Pouch	..... \$107.95
ASG05-1645	Israeli Plastic Canteen	..... \$5.95
ASG05-1646	Israeli Canteen Cover	..... \$9.95



GIANT DUFFLE BAG

Holds twice as much as the normal military duffle bag. 22 oz. cotton canvas. Deluxe ribbed cotton web shoulder strap. Black metal hardware. O.D. or black. Carry hunting gear, bats, clothing, etc.

ASG05-1404 O.D.....	\$24.95
ASG05-0838 Black.....	\$24.95



COMMANDO PUP

This plush and cuddly puppy has joined the Army and is waving good-bye as he goes off to become a commando. He's beige and brown, and is outfitted in a Woodland camouflage uniform and cap. Jacket has pockets, epaulets and snaps for easy on-and-off. Pants snap in back with a hole for his tail. He stands a proud 12 inches tall.
ASG07-2898.....\$14.95



WATERPROOF NOTE PAD

Write or draw in the rain. Spiral bound vinyl-like paper almost impossible to tear. Reusable since pencil notes can be erased over and over again. Paper is 6x4". Green vinyl cover is 7x4" and fits lower BDU pockets and leg cargo pockets.

ASG04-1507	Waterproof Pad	.....	\$3.89
ASG04-1505	Refill Pad	.....	\$2.89



E-86 CAMOUFLAGE THINSULATE® GLOVES

Ideal companion to Woodland camouflage outdoor wear. Lined with Thinsulate® for greater warmth while being thin, lightweight and breathable. Hand sizes: S-M-L-XL. Imported.
ASG08-0986 \$17.95 pair



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Light for warm weather; full cut to wear over clothing in cold weather. Urethane coated ripstop nylon. Woodland camo. Easy to pack; dries rapidly. Jacket has snap front closure, drawstring hood, elastic cuffs, and breast pocket with rainflap. Trousers have no-roll elastic waistband and snap-adjustable leg cuffs. $5\frac{1}{2} \times 7\frac{1}{2} \times 2\frac{1}{2}$ " folded. Fits BDU pockets. Sizes: S-M-L-XL-XXL (regular lengths). Made in the U.S.A.

ASG04-1024	Jacket	\$29.88
ASG04-1025	Trousers	\$19.88

Tear Gas:

The Terminator

*More protection than you can get with an alarm.
Intruders MUST flee . . .*

By Bob Clark



WITH very few exceptions, the majority of security systems available today can be classified as alarms. While alarms are certainly better than no security, they do have one inherent drawback which makes them virtually useless under certain circumstances. That drawback is, an alarm works on the premise that the intruder is going to flee, not from the alarm itself, but from the fear that another party who may also hear the alarm is going to take some kind of action against him.

If you remove or diminish this fear of action, the alarm is no longer effective. Take for example, a hunting lodge or cabin located far enough from civilization that no one would hear an alarm if it were set off. Even if you live in a city or rural neighborhood, an alarm can be effectively ineffective.

With more than 50 percent of American women working, entire neighborhoods are often vacant from morning to late afternoon. More and more burglaries are taking place during these hours. Even if someone is alerted, a 20- to 30-minute response time isn't unusual, a fact many professional burglars are aware of. In times of social unrest or even power blackouts, police agencies can be overwhelmed and may not be able to respond at all.

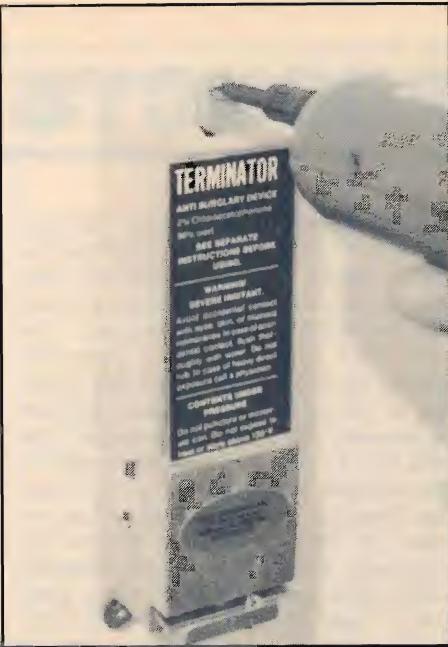
I don't mean to imply that an alarm system has no benefit, but certainly some form of security system with built in deterrent capability would be advantageous. Vicious dogs and booby traps have their obvious drawbacks. On the other hand the use of an irritating gas of the proper type will convince any intruder that he would much rather be somewhere else while possessing none of the hazards associated with



Installation of the Terminator is a simple task. Aluminum body should be located about knee high in a vertical position. Once located mark mounting positions and drill pilot holes.



If mounting to drywall you will need to drive anchors into mounting holes before securing in position.



LEFT & ABOVE—Tripwire runs from trigger bar to screw hook installed across room.

tronic triggering, one of the Repulsar systems or the Interceptor may be called for. No matter which you choose, you must keep in mind that you are responsible for arming and disarming the unit at appropriate times. An accidental discharge due to your negligence could have nasty consequences. You should also check local and state laws governing the use of such security prior to purchasing a gas unit.

(Continued on page 18)



Can retainer pin (a) holds CN canister in Terminator body while safety pin (b) keeps unit from being accidentally discharged. To arm simply hook up the tripwire and remove safety pin. Tension of 1 to 2 pounds on the trip line will activate gas.



Each Terminator kit comes complete with all necessary mounting hardware and tripwire and 4-ounce pressurized can of CN tear gas. Replacement cans are available from Revel. Make special note of local laws and safe mounting locations listed by manufacturer.

traps and the like.

For more than a decade, Revel Technology has led the way in the development and manufacturing of tear gas security products. Realizing the shortcomings of other types of security, Revel has developed an extensive line of tear gas systems for both commercial and residential applications. Notice I said residential and commercial. These systems should NEVER be used in aircraft or automobiles.

While Revel offers a number of very sophisticated, electronically triggered systems, a mechanically operated unit known as the Terminator offers the same type of security at a much lower cost.

The Terminator is a compact unit which is easily and quickly installed. Its cast aluminum housing holds a replaceable 4-ounce can of CN-type tear gas which is harmless to interior furnishings. Operation is mechanical through the use of a trip line

connected to the trigger mechanism. This trip line is multi-directional, making it adaptable to windows, doors, walkways, safes, etc. When triggered by the trip line the gas is quickly dispensed forcing any intruder to flee instantly. Used in conjunction with an audible alarm or by itself, the Terminator will drive away any intruder unfortunate enough to set it off.

The photos shown here illustrate just how simply the Terminator can be installed in just about any location. In this case it was fitted to the wall at the entrance to a main hallway. The trip wire is run a short distance to the facing wall. When activated, any attempt to move down the corridor will set the charge off instantly. This is an ideal set-up for residential and small business applications and provides very cheap insurance at \$39.95. If you are after a more elaborate system that will cover more area with multiple charges and elec-

NEW PRODUCTS

Microwave Jerky Kit



Now you can enjoy tender, tasty, homemade jerky at a fraction of the cost of commercial products (as little as 75 cents a pound vs. up to \$30+ a pound when bought by the piece) and in a fraction of the time normally required for homemade (as little as 10 minutes for a small batch vs. up to three weeks the old-fashioned way). Rocky Mountain Jerky has developed a delicious, low-cost formula and method for microwave jerky. The Rocky Mountain Jerky Kit consists of enough specially formulated spices and marinade for up to 20 pounds of jerky. Unused ingredients will keep indefinitely. Instructions cover both microwave and conventional methods. Use any kind of meat (the instructions tell you what to ask for from your butcher), from bologna to venison—you can even make turkey jerky. You decide how you like it, from mild to wahoo! Your family can be enjoying the tenderest, tastiest jerky ever in just minutes. It's a perfect gift and a great family project. Each kit sells for just \$15 plus \$2.50 UPS postage and handling. Quantity discounts are available. To order your kits or for more information contact: Rocky Mountain Jerky, Dept. ASG, P.O. Box 544, Salida, CO 81201; phone (303) 539-3934.

Israeli Commando Boot



Brigade Quartermasters, Ltd., a leading mail order firm, offers the lightweight and durable Israeli Commando Boot for all types of outdoor situations. "The Israelis originally designed this boot for desert wear, but troops in African armies have found they also work well in jungle situations," says Mitchell WerBell, president of

Brigade Quartermasters, Ltd. "They're versatile because the upper is 100 percent cotton canvas. That means the boot dries quickly in wet, moist conditions and lets the foot breathe in hot, dry weather." The olive drab upper features a jump-style buckle top collar that permits easy blousing of trousers to give a smart uniform appearance and keeps out unwanted bugs and dirt. The durable outsole is made of polyurethane that grips well in all climates and terrains. "After our field-testing, we knew the boot had several features our customers look for—it's quiet, durable, comfortable and best of all has a great price," says WerBell. The Israeli Commando Boot is reasonably priced at \$34.95. Competitive models start at \$55. The boot is available in European sizes 39 to 46 (approximately 6½ to 12½ in U.S. sizes). Purchases of Brigade Quartermasters' products offer the unique "110 Percent Mistakeproof Guarantee": a full refund plus a 10 percent discount towards the customer's next purchase. Brigade Quartermasters, Ltd. is a mail order, wholesale and retail firm that features high-grade survival supplies and equipment for both general recreation and emergency situations. Brigade Quartermasters' "Basics for Life" products are featured in its free 100-page "Fit for Action" catalogue. The catalogue is available by contacting Brigade Quartermasters, Ltd., Dept. ASG, 1025 Cobb International Blvd., Kennesaw, GA 30144; (404) 428-1248.

Leather Binocular Cases



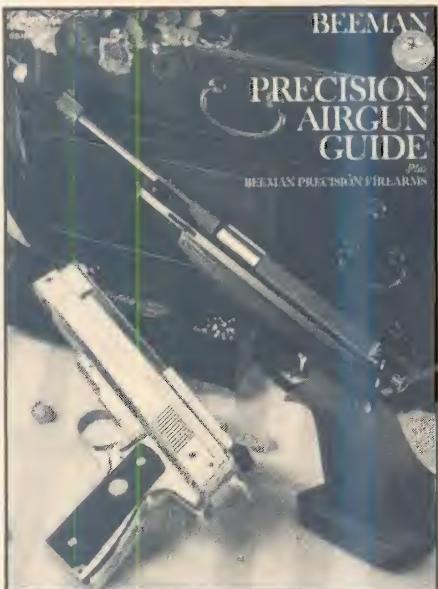
Leupold & Stevens, manufacturer of fine riflescopes, spotting scopes and binoculars, has introduced a new line of soft leather binocular cases. Designed to accept most binocular models and brands, the zippered cases are available in six sizes including compact, large compact, standard roof prism, large roof prism, standard Porro prism and large Porro prism configurations. Each case comes in a choice of black or green color with contrasting green or black padded velour lining. For complete information on the new leather binocular cases and for a free 20-page Leupold color catalog, write Leupold & Stevens, Inc., Dept. ASG, P.O. Box 688, Beaverton, OR 97075.

Compact Silent Generator



The Compact Silent Generator (CSG) is a solid-state, thermoelectric power source, weighing only five pounds, which converts heat from a camp stove or other source into five watts of electricity—more than enough to power a lamp, radio, small black and white television set, or even recharge batteries. The CSG's multiple outlets let you power three appliances at once. Heat sources such as gas or wood stoves, campfires or Sterno canned heat may be used. The CSG is 9 by 6 by 3 3/4 inches and produces 6 to 12 volts of DC current. CSG is maintenance free and is perfect for remote campsites, mountain cabins, manmade or natural disaster sites, marine galleys, RVs or energy-poor nations. The U.S. Army Special Forces is evaluating this product for military applications. CSG comes with these available accessories: custom heavy duty carrying bag; Yanes propane stove and burner; DC, AA/9-volt battery charger with cable; auto battery charger cable; extra cable adapters. To operate, the CSG is placed carefully over the flames so that the center of the CSG hot plate is directly on top of the open flame. As the temperature rises to the proper operating level, a green "RUN" light comes on. If too much heat is being applied, a red "HOT" light comes on, whereupon the user must immediately reduce the heat input until the green "RUN" light comes on again. An audible alarm sounds if too much heat is applied for too much time, so the user can remove the CSG from the heat source before it is damaged. The CSG is available with heavy duty carry bag for \$139.95 postpaid from The Dutchman, Dept. ASG, 9071 Metcalf, Suite 158, Overland Park, KS 66212; for ordering call toll free (800) 821-5157.

New Adult Airgun Guide



Beeman Precision Arms, Inc. has published the 14th Edition of its world famous Precision Airgun Guide—the world's most comprehensive source of information on adult airguns. The format of the Beeman Guide continues to be highly informational, rather than just a brief listing of products and their specifications. A prime example is the section entitled "State of the Art," which discusses the most up-to-date design features of modern adult airguns. Other vital sections discuss field uses of airguns, ballistics, and internal mechanisms of all types of air powered arms. As always, Beeman has some exciting new airguns and accessories too. Topping the list is the new Beeman R10—a technological advance! Beeman claims the R10 is the world's highest velocity production air rifle made, as well as the first production spring-piston air rifle to actually break 1,000 fps in .177 caliber, using the Beeman Laser pellet. The greatest achievement, however, is that the Beeman R10 only weighs 7.9 lbs. and has a cocking force of 25 lbs. Also new is the Beeman 5-Year Service Contract—available for all Beeman airguns—and the Beeman "Laserizing" process, which Beeman anticipates will lead to factory approved improvements in the efficiency and smoothness of their magnum power airguns. An exciting addition to their optics line is the Beeman Model 49R blue ring riflescope—economy with big performance! New accessories include: a new line of pellets in 5mm—Beeman is a strong advocate for the 5mm caliber because of its many ballistic advantages; the Beeman P1 Magnum Hip Holster and Shoulder Sling; and the Beeman Range Bag. New novelty items include the beautifully handmade

Gerstner Chests. Made of fine oak, these chests are perfect for gun accessories, target shooting supplies, and gunsmith tools. Also new in the novelty line are a series of Sportsmen on Film videos featuring the talents of top sportsmen in their fields. Families can easily learn about a variety of hunting and shooting techniques by watching these entertaining videos in their homes. The 4th Edition of the Beeman Precision Airgun Guide retails for \$2, but is available FREE with mention of code PR. Allow 4-6 weeks for delivery. For fast, 1st class delivery add an additional \$1. Beeman Precision Arms, Inc. Dept. ASG, 3440 Airway Drive, Santa Rosa, CA 95401-2040; (707) 578-7201.

Thermo Faucet Cover



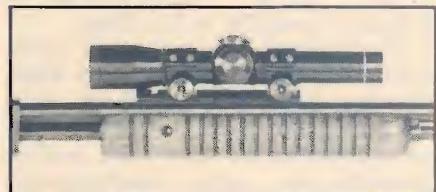
This lightweight "Thermo Faucet Cover" consist of a plastic outer shell lined with styrofoam insulation. It is very easy to install and remove. The cover protects faucets and "O" rings from freeze, sand storms, saltwater corrosion and other elements. The cover also prevents draft around faucets. The "Thermo Faucet Cover" is available in tan, brown, brick red and white. It is re-usable year after year and comes with a 100 percent 30-day money back guarantee. The complete unit sells for \$4.95 plus \$1.80 postage and handling. Contact The Gift Hut, Dept. ASG, 1153 Pinedale Circle, Conyers, GA 30207; phone (404) 929-1095.

Glass-Filled Stocks



Ram-Line announces a new manufacturing concept in glass filled fixed stocks for several models of bolt action center fire rifles. These "newfangled" stocks are manufactured from a high-tech process. Injection molding has eliminated the filling, fitting, and gunsmithing of previous fiberglass layup stocks, which required extensive handwork. Fiberglass processes, including Kevlar, are "hand" layups, thus tolerances are hard to hold and the product is expensive. Ram-Line's unique injection molding process holds critical tolerances by *molding* at 200 degrees F. and 20,000 psi into a precisely engineered tool. As a result, the barreled action of the gun fits with no gunsmithing required! The tough aerospace polymers used in the molding eliminates all possibility of moisture absorption due to porosity or cracks that might be in wood. This results in constant point of aim under *all climatic conditions*—The Best in "Outdoorability". In addition, the polymer is extremely strong and virtually indestructable and won't break—even if your horse rolls on it. Seven versions are available for models of Ruger M77, Remington 700 BDL, and Winchester M70. All this advanced technology at a price you can't miss . . . \$124.95!! Only from Ram-Line. For further information write to Ram-Line, Inc., Dept. ASG, 15611 West 6th Avenue, Golden, CO 80401; (303) 279-0886.

Rossi .22 Model 62 Pump Mount



It's easy to scope the popular Rossi .22 Model 62 Pump Rifle. Just remove the gun's rear sight, insert the special B-Square dovetail nut and attach the B-Square Rossi 62 Scope Mount. The new mount has a standard dovetail for weaver type rings (not furnished). Use a pistol (long-eye relief) scope for a fine and quick shooting rifle. B-Square mount is complete with dovetail nut, socket screw and wrench for easy do-it-yourself installation. Only \$29.95 at dealers. •

LaFrance Specialties:



NOVA .45

Custom-made .45 ACP pistol designed for concealed carry . . .

By Ken Fabian

I HAVE BEEN licensed for most of my adult life to carry a concealed weapon and have found very few handguns with reasonable stopping power that were comfortable to carry. My favorite "carry" gun is the "NOVA," manufactured by LaFrance Specialties in San Diego.

Tim LaFrance, owner/operator of LaFrance Specialties (5231 Cushman Place, #7, San Diego, CA 92110) has been making full-power pocket pistols for law enforcement use for many years, and has probably done more experimentation along these lines than anyone in the business. His objectives have been to reduce size and weight but not power or reliability.

LaFrance's most popular pistol is the NOVA 9mm which is about the same size as a Walther PPK. Physically it measures 4.5 (H) by 6.2 (L) by 1.2 (W) inches weighing 24 ounces fully loaded with 7 rounds. He makes a similar NOVA pistol in .45 ACP but it is of course somewhat larger; 4.6 (H) by 7.1 (L) x 1.3 (W) inches weighing 38 ounces loaded. Tim makes

another .45 caliber pistol which he calls the 6PAC which is sold to law enforcement officers only. It is slightly smaller than the

NOVA .45 and carries one round less and only weighs 28.5 ounces loaded. He has made an experimental 6PAC with not only



Tim La France has been building custom pocket pistols for years. Most of his work is for the law enforcement market.

Wood grip panels, a dark gray matte (electrofilm) finish are standard on the NOVA .45, which has a magazine capacity of six rounds.



A large beavertail prevents hammer bite. Note lack of grip safety.



an alloy frame but an alloy slide as well which only weighs 24 ounces fully loaded! There was also a .38 Super NOVA pistol which is unfortunately no longer in production. All of his pistols have a matte gray, corrosion-resistant, self-lubricating finish called electrofilm. This is a dry-film molybdenum disulfide lubricant which is actually baked into the pores of all steel parts after they are "Parkerized." This finish is very durable and makes for easier maintenance and simpler cleaning. The NOVA pistols have a partridge-type neon pink plastic front sight that is quick and easy to locate and quite durable. All of LaFrance Specialties pocket pistols are test fired 200 times with specified ammunition to insure 100 percent reliability.

To reduce the size of his pocket pistols, Tim had to engineer everything to the minimum dimension possible, so there is no slop anywhere. Because of this the pistols must be held firmly to assure proper functioning. "Weak-wristing" a NOVA and many other .45 pistols can cause it to fail to feed. A few purchasers of NOVA pistols have returned them for supposed malfunctioning, only to discover that *they* and not the pistol were malfunctioning. These people didn't grip the pistol firmly. A frequent problem in autoloading pistols is variations in ammunition. Tim solved this by engineering his gun around a specific cartridge (Winchester Silver Tips), and he promises 100 percent reliability with that round. The pistols will fire other brands of



LaFrance installs a dual counterwound recoil spring system of his design in his NOVA .45s.

ammo, but they are not guaranteed to have 100 percent reliability with the specified brand. Since each pistol is fired 200 rounds before it is delivered, there is no break-in required, and smooth reliable operation is assured. The pistols are also guaranteed to be capable of at least a 6-inch group at 25 yards, although both of my NOVAs shoot a group half that size.

The LaFrance pocket pistols were

designed with a deadly serious user in mind, and considering lack of quality control I've seen in a lot of new guns lately, it's a very comfortable gun to carry.

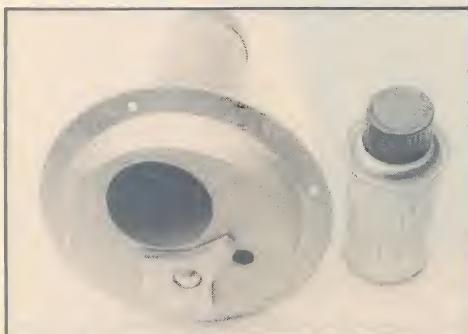
For further information on LaFrance guns, send for their brochure. Write to: LaFrance Specialties, Dept. ASG, P.O. Box 178211, San Diego, CA 92117. Be sure to include a stamped No. 10, addressed envelope. ●

The Terminator

(Continued from page 13)

If you would like to order one of the Terminator security systems or require further information on any of the other units, contact Revel Technology, Inc., Dept. ASG, 832 West 1st St., Birdsboro, PA 19508; or phone (215) 582-1730. •

BELOW & RIGHT—Revel Technology offers a number of more elaborate tear gas security systems such as the Repulsar I and Repulsar IV shown here. These units are mounted in an overhead position and are electronically triggered. Easily wired into existing alarm systems they offer the ultimate in tear gas security. Repulsar I features a single, easily changed 8-ounce CN canister. The Repulsar IV has four separate charges of CN gas that can be triggered individually or simultaneously.



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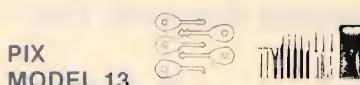
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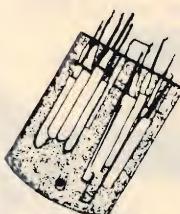
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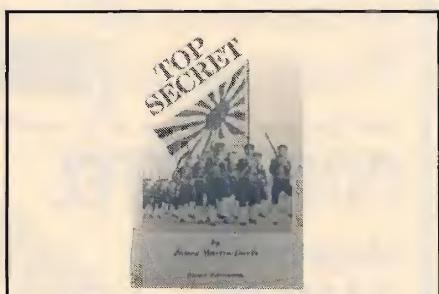
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BOOK REVIEWS



The 1987 Military History Calendar, by Raymond Lyman; Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; \$8.95.

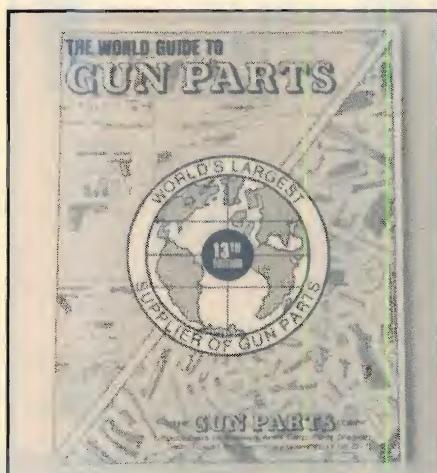
This large—12 by 13 inches—calendar is filled with fascinating black and white photos from government agencies showing scenes from World War 1, World War 2, Korea and Vietnam. Each month features one full-page photograph and several smaller pictures from the same period of military action. January, for example, has a large photo of three British soldiers from the famous Black Watch Regiment manning a Browning .30 caliber machine gun in Korea in 1952. There are additional smaller photos of British soldiers in the Korean conflict. The photos are each accompanied by captions giving specific information about them so you know what is taking place. Also in selected days of each month are detailed explanations of significant military actions for a specific year on that day. This is a very interesting, informative calendar for the military history buff.



Top Secret, by James Martin Davis; Ranger Publications, Dept. ASG, P.O. Box 1355, Omaha, NE 68101; 24-page keepsake booklet. \$6.

The product of four years of research, this booklet tells the story in vivid detail of America's secret plan to invade Japan in World War 2 prior to the dropping of the atomic bombs. It reveals the code names, the invasion beaches, the units to be involved and schemes of maneuver expected to conquer the Japanese homelands—drawn from declassified government documents. Operation Downfall, as it was code named, was to have been an unprece-

dented military operation involving more than 40 American divisions. Some 4.5 million American servicemen were to take part. This booklet describes the massive military actions and horrendous casualties expected if the plan had been put into operation. A valuable work for those interested in military history.



The World Guide To Gun Parts, The Gun Parts Corporation, successors to Numrich Arms Corp., Parts Division, West Hurley, NY 12491; (914) 679-2417; 433 pages, paperback; \$4.95.

U.S. Garand M-7 Grenade Launchers complete with clips, Springfield 30-06 bolt assemblies, plastic Army canteens, complete part lists for the SIG-SAUER P220 pistol, Remington Model 11 5-shot shotgun, CZ Model 27 pistol, Marlin Model 782 rifle, 9mm Styer 1912 pistol, Husqvarna 7.5mm Swedish pistol, Hungarian Femar 1937 pistol, Smith & Wesson Model 29 .44 Magnum revolver, and many, many more American and foreign rifles, pistols and shotguns—new as well as no longer manufactured. These are just a few of the items available from The Gun Parts Corporation which has warehouses with a total of 100,000 square feet of space situated on 37 acres of land. The Gun Parts Corporation also buys old and used guns. Besides firearms parts, there are also for sale dummy ammo, broken shell extractors, military first aid items, slings, cleaning gear, even an M1937 Field Kitchen Burner, and a vast number of other material far too numerous to cover here. This 13th edition of the catalog covers an inventory of more than 250 million gun parts which can be shipped C.O.D. or charged on your credit card. For most firearms there are exploded drawings with each part identified by name and number to make ordering easy. If you need parts for an old or new foreign or U.S. gun, want to sell an aging relic or just like militaria, get this catalog.

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South African Anti-Terrorist Operations Manual; Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; 236 pages, paperback; \$15 plus \$3 postage and handling.

Developed for South African military forces in their struggle with the South West Africa People's Organization (SWAPO), this is an in-depth training manual covering the military and political aspects of the South West Africa—Namibia—conflict. "Anti-terrorist operations (ATOPS) warfare probably places a greater burden of responsibility on the individual than does any other form of conflict," it is noted in this book's preface. "It connotes small groups and light scales. Catch words are: thorough training, self discipline, skill at arms, initiative, guile, endurance and above all, the will to win." After a brief description of the origins and activities of SWAPO and the South African response, there is a discussion of the ATOPS forces and definitions of terms used in the book. In Chapter 1, titled, "General Elements," the enemy is described: "The enemy is careless of death. He has no mental doubts, is little troubled by humanitarian sentiments, and is not moved by slaughter and mutilation . . . His standard of bushcraft is usually of a high order and he has a keen practised eye for the country and the ability to move across it at speed on foot . . . He is capable of being trained to use modern and complicated weapons to good effect." The enemy's tactics include unorthodox operations, foot mobility, night combat, ambush, extensive use of booby-traps, improvised mines and other devices using locally available materials, and evading decisive engagements. Other chapters cover command and control, intelligence and counterintelligence, employment of forces, types of operations, foot patrols, attacks on terrorist camps, ambushes, movement security, mines and booby-traps, land/air operations and much more. This book has a wealth of information on counter-terrorism. ●

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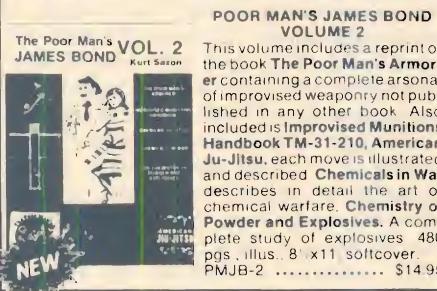
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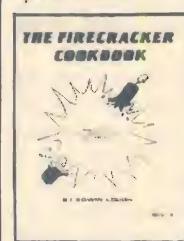
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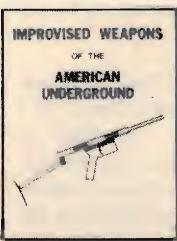
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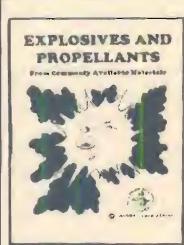
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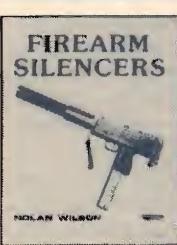
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Cold Weather Wear:

Emergency Snow Camo

Designing and making an emergency or temporary smock is really quite simple . . .

By W. Ed Poe



In snow, a white bed sheet can go a long way in providing emergency concealment. Strips can be quickly torn to make outline disruptions for many items. The helmet cover here is made from a pillow case.

WHEN asked to lead a local Explorer Scout post during the finals of a Capture-the-Flag contest, I nodded an affirmative answer, and asked for details.

The games were to be conducted during a large comporee that was planned for the weekend that the weatherman would set by announcing a big snow storm, or at least enough accumulation of snow to make the "Klondike Derby" worthy of its name. It was to be an all-outdoors event, with each Scouting unit being self sufficient, and a potential "enemy" to other units involved. No doubt, someone had developed an excellent method of teaching the young men and women ways of the wilderness, plus many survival techniques and tactics.

To this particular group of Scouts, adverse weather was not a worry. They would camp under any conditions, at any time. Their field equipment was the current ALICE gear, and their field uniforms were camo BDUs. Each member wore a black beret with the Explorer logo over the left eyebrow. Very smart looking, to say the least. Boy Scouting was never like that, when I was a youngster.

After receiving all the information which I had requested, I agreed a second time to assist them. It sounded interesting, and like a worthwhile project.

To kick the project off, I requested all

the members of the post to bring at least one used double bed white sheet to my home on a given night. To say the least, their advisor was shocked.

The evening the members came was filled with excitement and a lot of laughter, as we fitted each member with a type of smock and hood. The members did their own cutting and sewing, as my wife

and I watched and gave instructions. Along with the instructions, I found time to give out a few details concerning camouflage, methods of movement and ways to conceal entire units under many conditions that may be present. They listened and learned.

To cut a long story short, the Explorers did win the games, a special patch and a streamer for their post flag. And, did so in 12 or more inches of very wet snow.

Simple To Make—Designing and making an emergency or temporary smock is really quite simple. All you need is a new or used double size white bed sheet, a little assistance from your wife or friend and approximately one hour to do the job.

The best and quickest method I have devised is to use an Army poncho as my guideline or pattern. To do this, lay the sheet flat on the floor, then lay the poncho over it. Mark or draw lines on the excess white material to indicate the outside edges to be hemmed. Also, mark the location of the head hole in the center of the material.

Remove the poncho and pin all the edges for sewing and hemming. Cut the head hole approximately one inch smaller than your marks indicate. This one inch of material is to be used as a hem, and if desired, a drawstring. Fold and sew. Color of thread is not important; however, white is preferred.

At this point, your sheet is ready to be



Staying low, using white background can help conceal your location. Disruptive pattern on the white material would help in concealment.

worn as a basic cover for snow, if this is all you desire. By using a helmet cover or the hood on the poncho as a pattern, you can make and attach a hood. If needed, an old pillow case can become the hood and also a good steel pot white cover. If you are not proficient in the art of sewing or pattern layout, ask your wife to assist. She can probably knock that little project out for you in a few short minutes. Be sure and attach the hood to the same short side of your white poncho as it is attached to the military poncho. There is a difference, as the poncho is not a square. The short sides go to front and back; the long sides to the side.

If you prefer to wear your camo with the ALICE gear or pack on the outside, you can improve the comfort by adding sleeves and sewing up the side openings. To do this, put the white poncho on inside-out, with the hood in the back. Hold your arms out to shoulder height. Your helper can then pin the sleeve seam and side panel seam for sewing. Once both areas are pinned together, the helper can cut out the excess material; which should be pie-shaped. Remove the poncho carefully (due to the pins) and sew the pinned edges. Folded seams and double stitching should be used in those areas, as they receive a lot of strain and stress. After sewing, try on and take up any slack that you may feel is excessive.

The sleeve cuffs can be secured with string. Your ALICE gear will act as a waist belt, however, you may want to add a belt or string to cinch up the loose material. You and your new smock should now be ready to brave the elements.

Since snow camo is to be worn in colder climates, be sure and allow enough room to wear winter clothing. During the fitting of the camo, it is best to wear a winter coat or several layers of heavy clothing. Snow camo won't do you a lot of good, if you freeze to death.

The scrap material from the smock can also be used, so don't discard it. There should be enough material left to make white bandanas, face mask, strips for breaking outlines of equipment/weapons and/or emergency roller bandages. If not, go back to the linen closet. There is probably a bottom-mitered sheet that is worn out, too.

If your movements in snow take you into wooded areas or fields with high and thick bushes, you will want to add dark disruptive patterns to your white smock. This pattern will depend on the type of terrain and foliage you are in. The dark patterns can be made with charcoal, dark shoe polish or mud.

Remember, that this sheet emergency camo will not hide you from aerial view. Movement during overcast days and during the snow period is best. Also, any tint of unnatural colors on your snow camo will give you away. Yellowed material will most certainly present your presence to the viewing eye. After completing your smock or

Wearing white can help hide your position—or give it away. Be aware of the surrounding natural color, and try to blend in.



poncho, it is advisable to wash and bleach it. Not important in games, but it could be in a life-or-death situation.

Should movement become necessary, and there is no overcast or falling snow, it is best to schedule the move during twilight hours. There will be less chance of visual detection because the eye automatically adjusts to the light of the bright sky,

reducing the contrast in the darker terrain.

Waiting for the first snow fall to make your smock or poncho, may be too late. Like other outdoors equipment or survival supplies, it should be ready to go on a moment's notice. Don't forget to make one for each member of the family. Jr.'s little red ski jacket standing next to you, will certainly attract someone's attention. ●

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Transportation, Communications, Weapons:

Technology of Terrorism

While technological progress doesn't cause terrorism, it does provide the opportunities, incentives and armaments for today's terrorists . . .

By Robert S. McKay



WI THOUT modern technology, international terrorism would be virtually impossible. Since the end of World War 2, advances in transportation, communications, and weaponry have dramatically increased the ability of small groups to plan, execute, publicize, and escape after committing terrorist acts. At the same time, modern technology provides vulnerable "soft" targets for terrorist sabotage; gas pipelines, domed stadiums, dams, power plants, bridges, and reservoirs. As technology serves society, so too does it serve the terrorist.

While diplomats and politicians argue their lips off about the geopolitical causes of terrorism, any attempt to eradicate terrorism itself must involve the easy targets and sophisticated armaments that modern technology provides in the open marketplace of our Western democracies. Until we're willing to ban dry cell batteries,

fertilizers, clocks, reloading supplies, wire, all firearms, thermometers, and thousands of other products, terrorists will always be able to kill or destroy. And unless we return to a pre-20th century agrarian economy, there will always be large technological targets for terrorists to threaten.

To illustrate how closely technological advances are tied to the "rising tide" of political terrorism in the modern world, let's look at four major areas of today's "terrorist equation": civil aviation, communications, armaments, and soft targets.

Civil Aviation—As the civil aviation industry moved into the age of the jet airliner in the 1950s, it inadvertently set the stage for the emergence of international terrorism as we now know it. Before fast, unrestricted airline travel to all parts of the globe became an everyday reality, distance was a major obstacle for the international

terrorist. Planning, executing, and escaping after the commission of a terrorist act abroad was impossible until the advent of the modern commercial airliner. Today's terrorists can train in an Eastern Bloc country, fly to Libya to pick up weapons, commit depredations in Paris, and be safely back in Damascus before French authorities have finished investigating the crime scene.

Like embassies, airliners themselves are targeted because they represent specific nationalities. By blowing up an American jet in Rome, a Libyan terrorist can strike at the U.S. without ever having to cross the Atlantic. While fanatics like Khadafy threaten to bring international terrorism to our own shores, it's easier and safer to strike at U.S. interests and citizens abroad. Why come to the U.S. for victims when a handful of terrorists can hijack a plane load of unarmed Americans from

Athens or Rome? As one expert on terrorism points out, an airliner is a "convenient and mobile container of pre-selected hostages" that will continue to be a primary terrorist target so long as unrestricted international travel remains the norm.

Another vulnerable underbelly of civil aviation is the airport itself. By targeting ticket counters or loading gates, armed terrorists who haven't passed through metal detectors can kill dozens of unarmed travelers before escaping into huge crowds of bystanders. Planting bombs is even easier. Terrorists can check them onto U.S. carriers as baggage without boarding the plane themselves, or plant them in luggage left near a boarding gate at the terminal.

Because most international airports are so expansive, instituting effective security measures is difficult at best. With thousands of travelers coming and going daily and several square miles of runway and hangars to patrol, security personnel have a tough time trying to surveil airport employees or infiltrators who may sabotage planes or stash weapons aboard them. Metal detectors and baggage inspections are by no means universal, and depend upon skilled operators to be effective. And with the current close scheduling of flights among competing airline companies, it's

not always practical to institute detailed baggage and cargo searches because of the long delays and huge costs in manpower that these precautions require. In the U.S. particularly, issues of civil liberty would enter the equation if passengers were forced to undergo searches on domestic flights.

Communications—Since 1945 several advances in communications technology have proved crucial for today's terrorists, particularly television. Even the smallest radical band can reach a worldwide audience by committing terrorist acts covered by the international media. With the introduction of communications satellites in the 1970s, terrorist "incidents" occurring on another continent can be brought to you "live," just like the NBA play-offs.

Media coverage terrorizes millions of us by proxy. While hijackers may take only 100 passengers hostage on a plane, we all feel at risk. The whole idea behind modern terrorism is to affect the many by threatening only a few. Without television, it wouldn't be possible. This gives small, ruthless terrorist groups power over a world audience, making them a force to be reckoned with. For a few days or weeks, a few hijackers can hold a mighty nation at

bay while its leaders plan rescue attempts or negotiate through third parties.

The Media—Media coverage gives terrorists a certain institutional legitimacy and a platform for their propaganda. The more attacks a group takes credit for, the more publicity it gets. Over the years, this tendency of the media to focus on certain "stars"—Khadafy, Arafat, Khomeini, Abbas, and others—has provided them with international stature and importance. Acronyms for the major terrorist organizations—the IRA, PLO, PFLP, ETA and others—have become part of the international vocabulary of foreign affairs. With all this ongoing publicity, it's only natural that terrorists and their minions have become institutions unto themselves.

Other advances in communication serve terrorists as well. Satellites and microwave telephone facilities make long range logistical planning easier and faster. Computerized banking systems allow funds to be laundered and transferred to terrorist groups without much chance that the sources of the money will be discovered. Video and voice cassettes can be used to transmit demands or emotional appeals from hostages or kidnap victims. And logically, walkie-talkies, eavesdropping

(Continued on page 62)



Potential targets for terrorists include domed stadiums, power stations, reservoirs and government buildings.

Personal Protection Package:

LRRP Security Services

Production and training of outstanding-quality 'Timbershepherd' pups . . .

By Jim Pettigrew Jr.

IN AN AGE that seems all too often to be characterized by declining quality control and lethargic production values, it is heartening to come in contact with LRRP Security Services, Inc. This Aiken, South Carolina, firm is based on concepts that have made corporations great—high quality and product support.

The core of LRRP runs along dual lines: the production of outstanding-quality pups trademarked as "Timbershepherds;" and the specialized training of adult dogs.

Training at LRRP is represented by a multilayered system of programs that begin with Level 1, a basic personal protection package where the adult Timbershepherd is obedience and controlled-aggression trained. The succeeding training levels then advance into more sophisticated and specialized areas such as executive protection, paramilitary, explosive/narcotics detection and law enforcement.

Currently, LRRP has a top reputation among professionals in many fields and private individuals alike. The client list includes corporations, police departments, a U.S. Ambassador and numerous others such as single women who work at night, an airline president, rock superstars, U.S. Secret Service, and FBI agents (who use LRRP's dogs for home protection). Now listed with Dunn & Bradstreet, LRRP is the sole supplier of working dogs for a highly acclaimed international security firm.

To underscore this and understand why, one has only to be around the company's owner—a man known simply as "Harrison"—for less than an hour. Harrison, who began building his firm from scratch more than a decade ago, embodies the principles that underlie true success. A dedicated and articulate businessman, Harrison is also quite obviously an animal lover. Simply put, this breeder/trainer insists on one concept, the best. And, this is the case whether it be equipment, technique or finished product. In the language of the Deep South, he does business like an old-timer.

Harrison's attention to detail is evident everywhere around his 22-acre facility, hidden in a remote wooded area 15 miles north of Aiken; the immaculate grounds lead to 48 custom-built kennels that are much larger than AKC recommendations; the equipment speaks for itself: \$80 nozzles on the water hoses, stainless steel food and water bowls, top-of-the-line

Snapper lawn tractor, electric fence and so on.

This same scrutiny of detail is also evident in the animal care and training methodology at LRRP. Cleanup and sanitation work goes on constantly and there are removable sunscreens over the kennels. The adult dog compound is separated by 100 yards from the puppy kennels to minimize any sneaky infection of the susceptible young ones.

Training at LRRP is equally studied and methodical; the concepts are based on professionally accepted techniques including positive reinforcement and the animals' eagerness to please. Harrison strictly forbids any pain, fear, or brutal tactics (the latter are often used by unprofessional "trainers" to achieve quick results). Quite in contrast, there is nothing "quick" at LRRP, except of course the lightning attack of a trained Timbershepherd. The carefully laid-out training regimen involves hundreds of long working hours—and in some cases over 1,000 hours. And, the training must be accomplished within rigid parameters that themselves present hurdles to the human trainer: the dog must not be allowed to become tired or bored and its attention span must be considered at all times. For Harrison and five staffers, it's a 10-hour workday, seven days a week.

The result is a thing of stark beauty to anyone who has respect for animal training—to put it mildly, a rather awesome sight. The regal adult Timbershepherd at work is a scenario of intelligence, grace and power. The key words here are "controlled aggression" and "predictability." Acted out scene-by-scene on LRRP's training field, dog, trainer and protective-clad "agitator" form a deadly ballet of potential threat and then response.

Brought onto the field, the animal is a striking figure with its self-confident stance, steely musculature and black, brownish/cream coloration with traces of silver. In the "sit-stay" position at the trainer's side, the handsome dog watches the agitator intently, ever conscious of the trainer's position, needs and commands.

The dog tenses but remains motionless as the agitator goes into his act, playing the part of a felon or aggressor. Snarling, hissing through teeth and weaving as if drunk, the agitator makes increasingly threatening moves. Instantly on command

the big dog flashes forward and attacks the agitator with a bite-and-hold action. The powerful dog will not let go unless the object gives up and ceases struggling, or until given the "Out!" command by the trainer or "handler." The whole movement is over in a matter of seconds. "The handler," Harrison explains, "must be in control of the dog at all times."

After a short break the training party goes into different exercises of varying complexity. Some are more difficult, such as the "false run," a law-enforcement exercise where a simulated prisoner agitates the dog and then bolts to escape. The dog, in an alert sit-stay position, must hold there and not attack.

The "standoff," a related exercise, is considerably more demanding. Here, the prisoner actually breaks, runs, and then gives up. The Timbershepherd, poised for action and then actually into an attack run, must be called off before touching the prisoner. This is critical for police work in order to avoid charges of "excessive use of force." Other exercises include "prisoner search," employing attack without command, when the searching officer is assaulted. As trainer and agitator sweat under the merciless South Carolina summer sun, the dog gets frequent praise.

Harrison, who participates in every level of LRRP's workdays, at times changes roles from trainer to agitator, donning the protective leathers for a round of extremely hot, strenuous routines.

After each exercise Harrison and his colleague discuss the dog's performance, noting fine points and items that may need work. A good example is when Buddy, Harrison's 10-month-old trainee (LRRP's showcase dog of the future) doesn't properly return in a standoff practice.

Professional Atmosphere—These exercises and the overall professional atmosphere at LRRP form a stark contrast to what many novices—including wealthy paranoids and junkyard owners—perceive as "guard" or protection dogs. All too often brutalized and deliberately bred into a condition where they will attack anything that moves, these unfortunate animals are essentially useless. More so, they are very dangerous in their lack of ability to distinguish conditions and circumstance. They may turn on owner/handler, straying children, etc., without warning and with



obvious results.

The majestic Timbershepherd stands quite apart from this cretinous group and Harrison's highly successful line was neither quickly nor easily arrived upon. Twelve years ago, the breeder/trainer became interested in the possibility of improving the German Shepherd line—already an exceedingly good protection dog.

Early on Harrison was convinced that an introduction of North American gray timber wolf stock would enhance the shepherd line, but the path to success was blocked by stones of frustration and trial and error. Although history records instances of trained wolves, over the centuries few occasions of real success have been noted. Nevertheless, the much-maligned wolf possesses numerous outstanding qualities including superior intelligence, curiosity and stamina. Contrary to a once-popular belief, healthy wolves



A dog is put through its paces on the obstacle course.

rarely attack humans and these animals are valuable predators. Their human-forced absence from some areas, science has now documented, has led to serious problems such as rodent overpopulation.

Over a period of years Harrison began experimenting, first with a 100 percent shepherd-100 percent wolf combination. Gradually his results led him to decrease the wolf percentage and he finally hit a formula that showed a great deal of promise. This was a 62.5 percent shepherd-37.5 percent wolf and the hybrid evidenced remarkable intelligence, stamina, and longer useful lifespans.

This dog, dubbed the "Timbershepherd" by Harrison, also showed a dramatically decreased tendency to cases of hip dysplasia—a serious congenital disorder affecting German Shepherds (wolves have no history of hip dysplasia).

With the sale of his first dogs in 1975 Harrison found his reputation growing. Often demonstrating LRRP's ability to train dogs for very specialized uses, he enjoyed a widening client list. One recent example of special training is a dog that, upon delivery, was able to recognize foreign-language commands; another case is a Seeing Eye Dog, protection-trained by Harrison for an international precious-stones courier who is legally blind. The company also recently completed a regimen with an exceedingly powerful dog, scout trained to work silently outdoors at night; it's to be used by a Kansas cattle owner for anti-rustling work.



Honcho is Harrison's personal dog and a demo dog for LRRP.

LEFT—A dog responds to an attack on its handler.

BETWEEN—Harrison with LRRP's dog Guinness.



With the origin of LRRP's corporate history, Harrison's attention to detail was implemented. At an early age of just a few weeks the Timbershepherd puppies begin a program of human "socialization." This involves a staffer playing with the pups on a daily basis. Besides getting the pups accustomed to human contact, this program has numerous long-range ramifications. During the play periods, the staffer carefully observes each puppy; overly aggressive pups are kept aside for certain periods to curb this tendency. Inversely, puppies that are unusually passive or shy are given extra attention. Even seemingly trivial techniques at this stage may have important results: occasionally the staffer will lightly brush a palm across the pup's nose. Later in the dog's life this will manifest itself as part of a silent command; also, during a bite, the dog will not let go—if struck on the nose by an assailant.

The list of careful detail goes on. Each of LRRP's dogs is given the Guide Dog Test, the same test administered to potential Seeing Eye Dogs.

All adult Timbershepherd stock are X-rayed to ensure the absence of hip dysplasia. Young dogs must also be given a clean bill by Harrison's vet, hours before delivery and each client is supplied with a brochure detailing early care for the valuable animal.

Changes—Since *American Survival Guide* last profiled Harrison (vol. 6, no. 8) in August 1984, there have been a few changes at LRRP, some significant, some subtle. The company has expanded, but only slightly, opening a branch office in Tacoma, Washington. "The demand is there," Harrison says, "and I could sell dozens, scores more dogs. But, with my present staff and facility, to drastically raise our output I'd lose all semblance of quality control. It terms of output the com-



Ten-month-old dogs are trained in teams.



The kennels at LRRP.



Timberwolf breeding stock.

pany has only grown a few percent in two years, but I still have the quality that satisfies me."

Some of the changes are evident in the ever-evolving training program. LRRP's field area now has an obstacle course, used to build dogs' confidence in unfamiliar surroundings by simulating windows, tunnels, and open water. Inside-building exercises are carried out during weekends at local industrial sites. Currently, Harrison shoots extensive videotape footage on each dog. This is valuable for critique, keeping the client posted on the dog's progress and for legal reasons. Harrison is also finishing a video brochure on the company.

One new training technique is a multi-line approach called "suspicion search," for example, when a dog is being trained inside a vehicle. Here, the dog may be keyed on an agitator outside the rear doors; as the dog is watching the obvious assailant, an unseen party springs on the animal's rear quarter to pull its tail. "This begins teaching the dog to be alert from more than one angle," Harrison explains.

Because his breeding program has been so successful, Harrison is now able to support what he considers a unique offer in the field of working dogs: a lifetime guarantee on genetics and temperament. "I feel comfortable with this guarantee now," Harrison says, "because my line is proven. If someone feels that they have a problem, they should call me. I want to know first. It may or may not be a problem with the dog, but regardless, I'll work with the client. I've had cases where the client really was not certain of what they were getting. At any rate, they felt they had a problem and I refunded the money. Usually, the problem wasn't with the dog and I placed it elsewhere."

Those interested in owning a professionally trained big dog, a beneficial household addition under many conditions, should be aware of certain facts. First, a working dog, including a highly trained and carefully bred Timbershepherd, is still a dog and not an appliance. The dog will need daily care, including feeding, inspection for any ailments and fresh water available at all times. It will also need a considerable amount of human contact. Dogs are social

animals and do not fare well if shut away or otherwise denied association with owners.

A pro dog also must be worked (exercised through some of its paces) frequently. Otherwise it may lapse and lose its training regimen. Those in the habit of beating animals should avoid the ownership of a Timbershepherd for simple reasons: they're carefully bred and reared to respond to praise and companionship; abuse may negate their fierce loyalty, with serious results. For an LRRP graduate, discipline comes primarily in verbal form, only occasionally augmented by a choke-chain.

Dogs, from the time they enter the household at an early age, add a level of responsibility, but most people will find that this quickly disappears into almost any daily routine. The dog will require regular veterinary care such as shots, checkups and attention to the occasional puppy mishaps (abrasions, etc.). In warm climates such as the Southeast, daily heartworm preventive must be administered without fail. Also, under most conditions, a regular flea-care program should be considered. This may include (for households) the need to regularly vacuum interiors and the use of Sevin dust or internal medicine such as Pro-Ban. Numerous books and brochures are available on dog care and the advice of local vets is quite valuable.

While people may be understandably concerned about trained aggression dogs and families, a high-quality dog such as a Timbershepherd is quite safe around young children and expensive interior furnishings. In Harrison's experience, a Timbershepherd will become quickly

attached to—and very protective of—anyone in the household from the time the dog is introduced. However, if a new infant is to be expected after the dog is established, the dog may become jealous unless the dog receives a fair amount of attention.

Prospective owners should consider a few points about LRRP's dogs. They are bred and trained for personal protection or other specialized work. These sophisticated animals are not intended for selfish or unthinking uses like frightening passersby, setting upon feuding neighbors, engaging in illegal activities or rending divorced spouses to bits. Those who have similar aims in mind should seek another firm.

Harrison has specific thoughts about the application of his Timbershepherds. "I try my best to screen each client," he emphasizes. "And on occasion I'll get a deposit from someone, then I'll notice something. It may be erratic behavior or some other inconsistency. Regardless, it tips me off and I'll just send the deposit back. I've been doing this a long time and I can quickly tell what use a client has in mind. I don't want trouble coming back to me in the form of a lawsuit."

Normally, because of limited supply, LRRP cannot deliver a trained adult Timbershepherd on demand. The company's usual sale involves the client picking up the Timbershepherd pup when it's ready at 10 weeks old. The pup is then reared in the household until it's old enough for professional training, about 14 to 16 months, whereupon it comes back to LRRP for the desired training levels. For cases of more timely needs Harrison can supply trained adult German import shepherd purebreds on special order within a reasonable period.

Although having a trained big dog is not hassle-free, there are numerous merits to be considered. Not the least of these is the remarkable loyalty and affection a dog can offer; there's also the sense of security for loved ones and possessions. For many people these factors far outweigh the comparative responsibilities of ownership.

For more information send \$3, check or money order, to: Harrison, LRRP Security Services Inc., Box 1620, Dept. ASG, Aiken, SC 29801; (803) 649-5936. ●



A pair of young Timbershepherds.

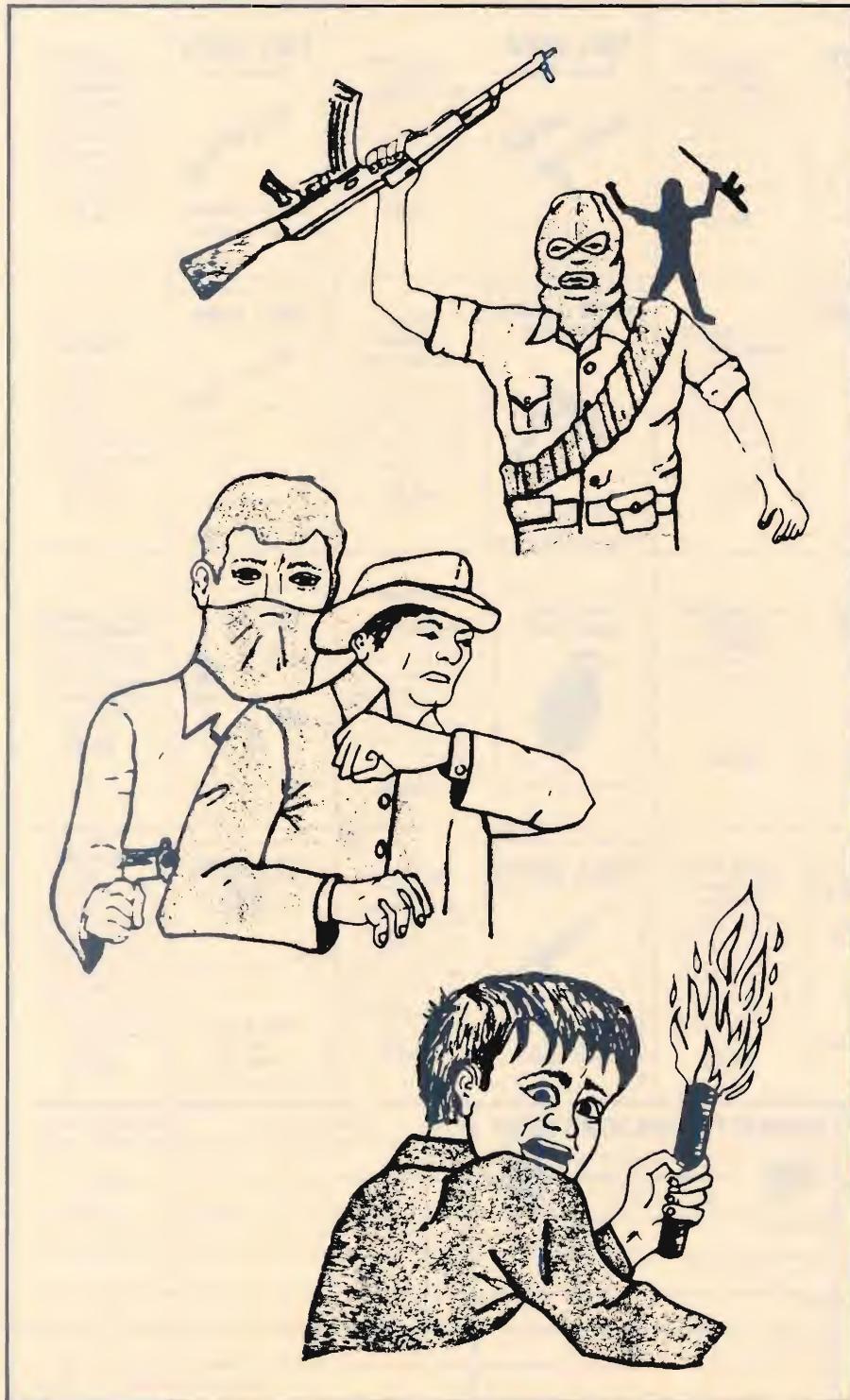
Urban Terrorism:

Crusaders, Criminals, Crazies

Many of today's politicians and military planners have a difficult time grappling with the psychological realities of terrorist motivation . . .

By Carl H. Yaeger

ILLUSTRATIONS: DEPARTMENT OF THE ARMY, FBI



Terrorism authority Frederick J. Hacker has defined terrorists in three broad categories: crusaders, criminals and crazies.

THAT generals and politicians plan to fight the next war based on the lessons of the last, is a cliche that is all too true. As the outrages of urban terrorism erupt throughout the world, too many government leaders and military planners in America look back to the Vietnam War in order to find answers on how to cope with this new form of warfare.

They might as well be looking back to 1918, when millions of soldiers manned the trenches and charged across no-man's land into the hail of machine gun bullets, for today's new war—international, transnational, and national terrorism—is as different from our last conflict as it is from the Springfield '03, and the wrap-around leggings of the Great War of 1918.

Ironically, there is one thread of commonality between today's new form of warfare and World War I: The Great War was precipitated by a terrorist crusader, assassinating a symbolic target, and belonging to an ethnic transnational terrorist group . . . the Serbian Smrt ili Zivot—(Life or Death) an organization which, if operating in today's terrorist environment, would have felt quite at home.

In 1956, Nikita Khrushchev, the Premier of the Soviet Union, announced that the U.S.S.R. was prepared to support "Wars of National Liberation" anywhere in the world. His announcement came as no great surprise; the Communist International (COMINTERN) had been training native insurgent leaders from the European colonies since 1920. Indeed, Vladimir Lenin is reported to have said, "That the road to Paris, London, and New York is through Calcutta and Peking." After World War 2, native revolutionary movements proliferated throughout the Third World . . . in Indonesia, India, Burma, Nigeria, Kenya, China, and Indo-China. The British, French, Dutch, and Portuguese colonial masters were forced to grant independence to their former colonies because of either political agitation, guerrilla warfare, or a combination of both.

The three revolutionary guerrilla wars which had the greatest impact on future would-be guerrillas, world-wide, were the Chinese Communist revolution, the Indo-Chinese (Vietnamese) and the Cuban. All three occurred between 1949 to 1959, and were classic guerrilla wars where the rural countryside, jungle, forest, or desert, was

the battleground. The cities were bypassed, cut off from food and water and left to "wither and die on the vine."

The success of the rural guerrilla experience led the Palestinian Arabs to incorporate the lessons of China, Vietnam, and Cuba into their own strategy. Rural insurgents, the Fedayeen, or "Self-Sacrificers," were forged into classic guerrilla soldiers and were incorporated into the Egyptian, Jordanian, and Syrian armies. When the Six-Day War of June, 1967 erupted, the Palestinians were used as guerrillas as well as conventional troops. They were decimated, along with the rest of the Arab armies in this spectacular Israeli victory.

On the other side of the world, the rural guerrilla movement was formalized into a permanent global strategy in 1966 at the Moscow-inspired Tri-Continental Conference in Havana, Cuba. The slogan of the conference was "One, Two, Three . . . Many Vietnams!" The overall strategy was designed to create rural revolutionary wars—"Mini-Vietnams"—in the three continents of Africa, Asia, and South America, and embroil the United States in a massive effort to stomp out these countless brush-fire wars. The "pilot project," designed to prove the efficacy of this strategy, was Che Guevara's attempt in 1967 to ignite a continent-wide conflagration, starting in Bolivia. Guevara, the Argentine-born guerrilla and one of the architects of the Cuban revolution, floundered in the jungles for months before an American-trained force of Bolivian rangers annihilated Guevara and his men. The lesson was clear: The United States was learning how to fight rural guerrillas based on her Vietnam experience, and was passing this knowledge on to those Third World nations targeted by the Tri-Continental Conference. The rural guerrillas were fast becoming "fish in an unfriendly sea" of pro-government peasants in many parts of the world. Guerrilla successes in remote areas were not reported on, nor did they have an impact on undermining the established government. Reporters and television camera crews are not always found in the boondocks of the world, recording the achievements of anti-government revolutionaries. The theater of war had to be shifted in order to affect the masses.

A new philosophy and a new strategy evolved from the failures of 1967. In the following year, *The Mini-Manual of the Urban Guerrilla*, written by the veteran Brazilian urban terrorist Carlos Marighella, burst upon the revolutionary scene. The *Mini-Manual* represented a radical strategic departure from the rural war, where armed paramilitary formations, operating out of "focos," secure base camps in the countryside, clashed with government troops. The new strategy re-established the "foco" in the urban areas, especially in the teeming cities of South America, the Middle East, or Western Europe. The assault by the new urban guerrilla-terrorists was to be two-pronged;

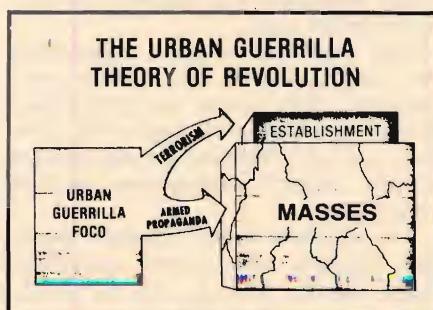
armed propaganda towards the masses (often known as "propaganda of the deed," i.e., a terrorist action) and violent terrorism towards the establishment.

Target America—The influence of urban guerrilla theories developed in other countries during the past few decades on actual or would-be terrorists in the U.S. has been considerable. To understand the development of urban guerrilla warfare in this country, it is necessary to examine its historical and geographical antecedents. This examination helps focus on the peculiar nature of this genre of revolutionary activity as it is practiced here and illuminates some of the dilemmas encountered by the urban guerrilla in America.

Such an examination requires, first, a definition of terms, although the media uses "terrorist," "urban guerrilla," and "revolutionary" interchangeably. In the context of today's political world, urban guerrilla warfare can be defined as criminal conduct for revolutionary purposes. Terrorism, on the other hand, is usually violent criminal activity designed to intimidate for political purposes. The distinction is in the goals sought and, only sometimes, in the methods used. The guerrilla is working towards revolution. The terrorist act is to focus attention on a particular grievance.

A word on the distinction between urban and rural guerrillas; where the difference would appear to be simply geographical, there exists an argument between the proponents of the two types of conflict. Part of this dispute lies rooted in the interpretation of Marxist theory and it has not affected advocates of revolutionary warfare in this country so much as have the practical considerations that 1) power of all types—governmental, political, and economic—lies primarily in America's urban centers and 2) most of those who have become revolutionary terrorists in the United States are individuals with urban backgrounds. They would be "fish out of the sea" operating in rural areas. Rural communes have been used as terrorist hide-outs in this country, particularly by New Left revolutionaries, but these rural commune dwellers have not mounted guerrilla operations in the countryside.

Terrorist Psychology—Many of today's politicians and military planners have a



Since 1969, the shift in revolutionary terrorism has been away from rural areas and into urban areas of the free world.

difficult time grappling with the psychological realities of terrorist motivation. They could readily understand the mentality of the Nazi and Japanese soldiers of World War 2, and were beginning to understand the thinking of the Vietcong before that war ended; but what motivates middle-class, well-educated American and European young people to hijack airliners, bomb ROTC buildings, or kidnap well known personalities such as Patty Hearst? Some, but not all of the answers can be found in Marxist interpretations of revolutionary warfare. Not all terrorist acts, however, are committed by hard-core political terrorists. Many are committed by criminals seeking personal gain, or by people who are mentally ill. Persons or groups responsible for terrorist acts generally fit into one of three categories as defined by Doctor Frederick J. Hacker in his book *Crusaders, Criminals, and Crazies*. He groups terrorists as:

—CRUSADERS—Ideologically inspired individuals or groups. The political terrorists.

—CRIMINALS—People who commit terrorist acts for personal gain rather than for ideological reasons.

—CRAZIES—Mentally ill people who commit terrorist acts during a period of psychiatric disturbance.

Government and police agencies must understand how terrorist groups differ when preparing an effective counter-terrorism program, and even more so when engaged in a counter-terrorism action. But their differences are not always clear-cut, thus the need to distinguish terrorists by broad categories instead of precise definitions. None of these categories are mutually exclusive. Even someone characterized as a hard-core crusader often moves into criminality in an attempt to finance their crusade. A good example is Josef Stalin, a fanatical crusading Bolshevik. He was also one of Tsarist Russia's most notorious bank robbers. The millions of robbed rubles helped finance the Communist revolution of 1917.

Crusaders want prestige and power for an effective goal or a higher cause. However, since the act of terrorism itself is a criminal act, participation makes the crusader a criminal. Many crusaders have extensive criminal backgrounds. Terrorist groups have recruited new members in prisons, often beginning the indoctrination and training of the new members while they are still confined.

The crusader may also be mentally ill, suffering from an anti-social personality, a paranoid schizophrenic, or other form of psychiatric disturbance. These people see membership in a crusader group as an opportunity to exercise violent behavior. Some crusaders have a pathological need for the support and identification provided by group membership. An example of an individual who fit all three of these categories was Donald De Freeze, alias "Gen-

(Continued on page 66)

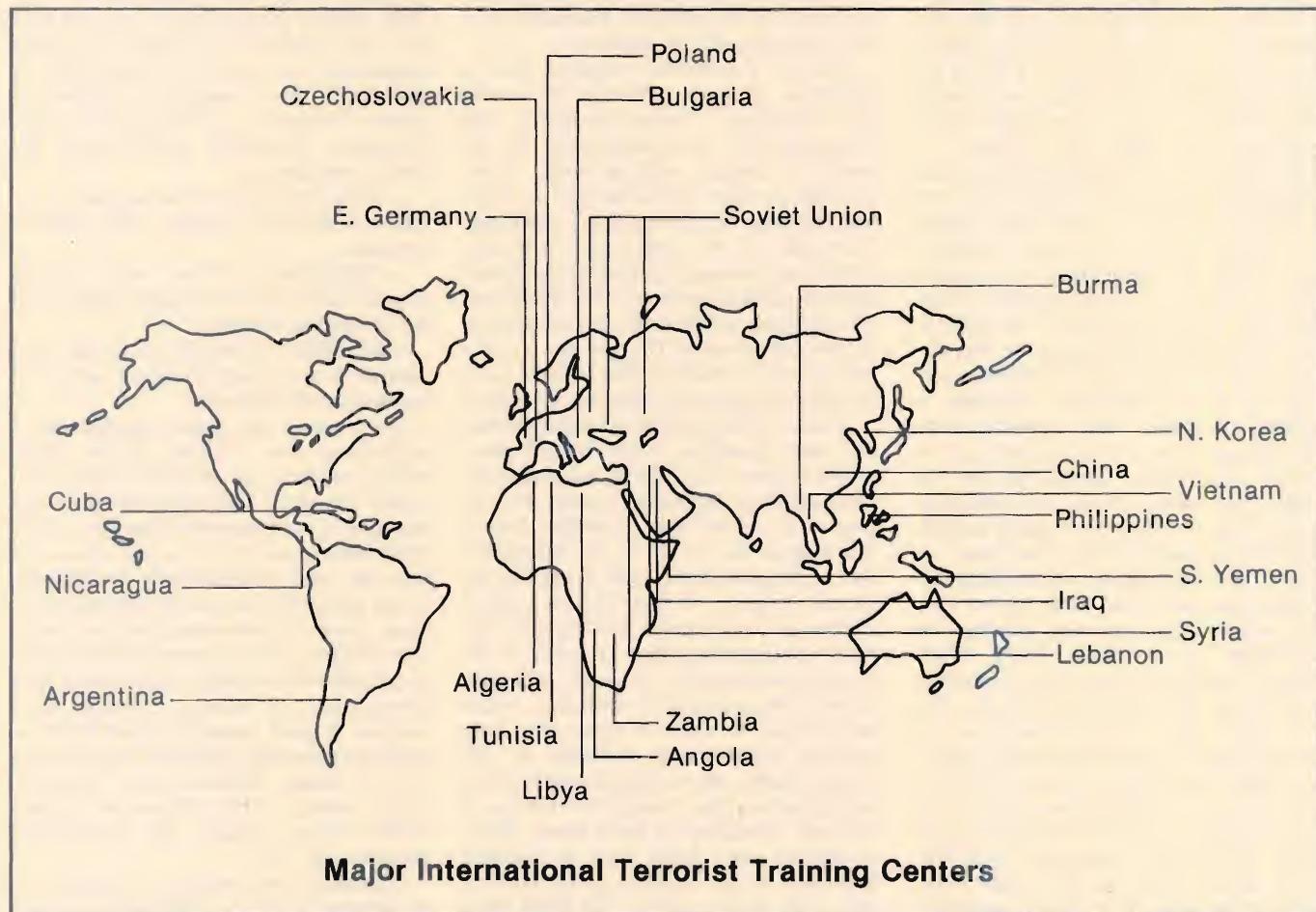
Organization:

Terrorist Underground Commands, Columns, Cells

To understand the effectiveness of terrorist groups, one has to understand how they are uniquely organized . . .

By Carl H. Yaeger

ILLUSTRATIONS: DEPARTMENT OF THE ARMY



THROUGHOUT most of this century, the small nation of Uruguay was known as the Switzerland of South America. Peaceful and prosperous, its citizens enjoyed one of the highest standards of living in the western hemisphere. It had a cradle-to-grave welfare system and democracy was well-rooted.

In the early 1970s, an underground terrorist organization known as the Tupamaros almost brought the little republic to its knees. Its democratic institutions were shattered and its economy was in ruins. Its comic-opera military shed its apathy and incompetence and emerged as an effectively ruthless force which destroyed the Tupamaros, but it also destroyed the freedoms of the Uruguayan people. The Tupa-

maros had lost the battle but they won the war: they had altered the nature of Uruguayan life forever. They had destroyed democracy and helped to create a fascist police state.

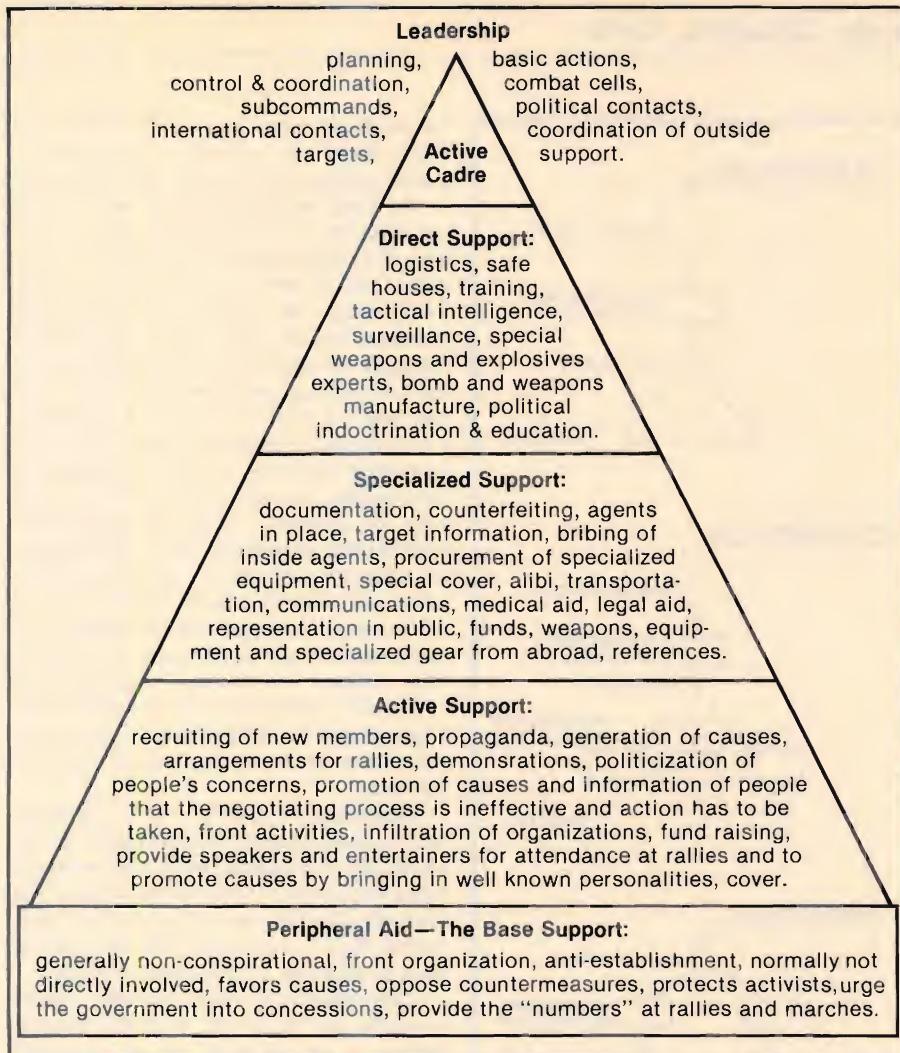
How could such a small organization like the Tupamaros (its numbers never exceeded 3,000) exercise such tremendous power and influence? To answer that question, one has to examine the organization of this classical underground terrorist group.

The survivors of the Tupamaro defeat fled Uruguay and spread throughout South America, Europe, and the Middle East. Many wound up as instructors at terrorist training camps in Cuba, Lebanon, Yemen, and Soviet bloc nations. They

shared their battle-proven and time-tested organizational concepts and experience with terrorist trainees from all over the world including those from American radical groups such as the Weathermen, Black Panther Party, and the American Indian Movement. In the mid-1980s, thanks to the Tupamaros, terrorist groups worldwide practiced a common, and deadly effective form of underground organization.

To understand the effectiveness of terrorist groups, one has to understand how they are uniquely organized. All terrorist groups have one thing in common: they are clandestine underground organizations operating in a hostile environment.

The terrorist underground organization is usually a hierarchical structure, rising

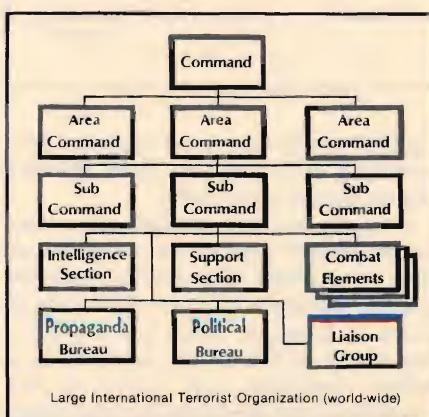


from a base of "cells" and, if it operates within an entire country as the Tupamaro's did, the cellular structure would be found at all levels of government—through branches, districts, states or provinces, to national levels. In effect, the terrorist cellular organization would be a "shadow" government of cells, created to assume control of the government when it falls to the terrorists.

Members of terrorist undergrounds fall into six categories depending upon their degree of commitment to the cause. The leadership cadre is the hard core of the organization, the "brains," and consists of those whose main mission is to carry out the orders from the higher echelon, establish policies, plan, control, and execute missions, ensure that all actions are politically sound, and not counterproductive to the terrorist group's cause. The training of terrorist leaders is conducted in numerous international training centers. Besides being the most ideologically committed, the leadership of any terrorist group is often the most paranoid because they have been in the group the longest, and survived years of conflicts with government security forces as well as struggles within the underground.

The active cadre . . . also the hard core

. . . are the "doers." They are the ones who actually carry out the missions, plans, and operations. The active cadre comprise the combat cells and special cells that may be composed of specialists in demolitions, bombs, arson, safecracking, sniping, and other specialties related to combat. The basic action cells found in the active cadre are tailored according to the needs of the mission. Personality types within the active cadres differ, but typically you will find students, drifters, and criminals. Motivation among active cadre members is often a combination of ideological commitment,

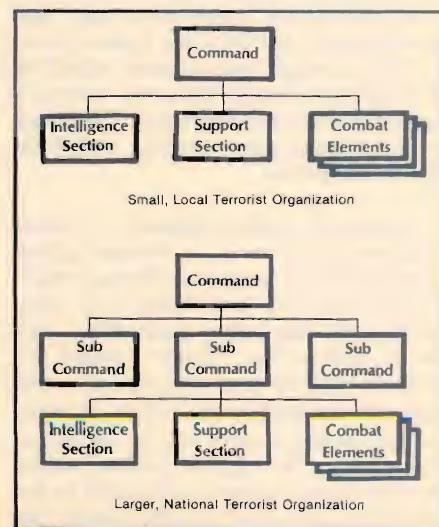


strong peer group pressures, and just plain boredom with the "straight life."

The direct support cells take care of safe houses, training, target and tactical intelligence, surveillance, and supply areas for weapons and ammunition. These groups also contain supply and procurement cells which obtain the equipment needed for general or special missions, again, weapons, ammunition, explosives, and special equipment. They are often responsible for the transportation of these materials to the target area. The direct support cells are also responsible for the manufacturing of bombs, timers, and booby traps.

Specialized support provides such services as documents (false IDs, drivers licenses, etc.), the placement of intelligence agents in target areas, cover and deception, alibis for accused terrorists, and other illicit items. Medical, dental, and legal services are provided by sympathetic or paid professionals. Special persons or groups are often designated to represent the terrorist organization in the "overt" or above-ground activities. An example of this would be the Prairie Fire Organizing Committee in the United States. This group has provided medical support to the Weather Underground following a bomb explosion in one of their factories. Legal support for terrorists has often come from the United States Lawyers Guild, and the Irish Northern Aid Committee has been a source of funding for the Irish Republican Army for decades.

Active support is the above-ground apparatus, an essential arm in any terrorist operation. It provides such services as the recruiting of new members, propaganda, publicity, promotion of causes, non-specialized activities such as fund-raising, and the organization of rallies, demonstrations, protests, and marches. These groups use people that may actually be unaware of the fact that they are supporting a terrorist organization or a radical cause or, if they are away, justify their assistance. Vladimir Lenin referred to the people in this group as "useful fools."



Terrorist Underground Commands, Columns, Cells

The Symbionese Liberation Army, the group of crazies which kidnapped Patty Hearst, never numbered more than a dozen or so active cadre. Their effectiveness, however, was ensured by the large number of active support cells which provided the safe houses and the transportation to keep the Hearst girl out of circulation for so long.

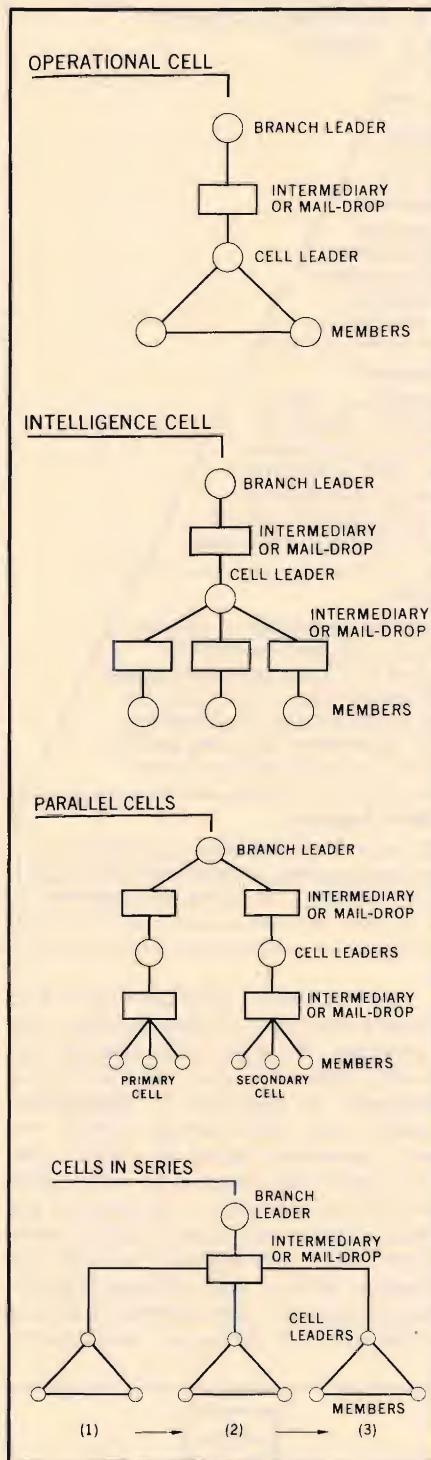
The base support, passive support, and peripheral aid category is the "Maoist sea" in which the terrorist swims. It is the essential element for any terrorist group. It is largely composed of nonconspiratorial people who may be disenchanted with their government or dissatisfied with their lot in life. These people are generally unwilling to cooperate with the authorities, will shield the terrorists or provide them with aid and actively oppose government countermeasures. Although not deeply involved, the base support groups provide the fillers at rallies, marches, and demonstrations. With their numerical strength, they can pressure the authorities into granting concessions which aid the terrorist movement. They are the popular support of the terrorist group without which no terrorist organization can function or exist.

All of these segments of terrorist organizations may not be readily identifiable, but they are the essential elements in any terrorist-insurgent operation. These elements represent the infrastructure that divides the society, eventually destroys its cohesiveness, separates the people from their government, and brings about the needed destabilization without which no revolution can succeed. The two main ingredients for a successful revolution were identified more than a century ago by a Russian revolutionary, Mikhail Bakunin:

A small, well-trained determined and highly organized minority of revolutionaries, structured as an armed force of a clandestine political party, which through terror is prepared to seize power;

A revolutionary situation in which the governmental authority has broken down so that the people have no trust or faith in their representative government, viewing it as an instrument of oppression. They may join in revolutionary activities with little fear of retribution.

Commands, Cells, Columns—A typical command structure of a terrorist group would include a command element which would consist of the "brain"—in other words, the hard-core leadership. The active cadre—the "doers"—would be found in the sub-command elements, and each sub-command would direct as many cells as needed to carry out the operations of the group. The support elements would command those support cells found in the various support areas. In other words, the



Tupamaros could move beyond the urban terrorist stage and conduct a near-conventional military operation at their choosing.

The basic building block of any terrorist organization is the cell. Ordinarily, it consists of a cell leader and between three and eight cell members. The leader assigns work, checks on members, and maintains communications with other cell leaders through intermediaries. The actual size of any one cell depends upon its function and the level of security it has to maintain. Many cells are compartmentalized in order to protect the entire terrorist organization and reduce the vulnerability of its members to capture. Compartmentalization restricts the information about the identity, background and current residence of any other cell member. Each member knows the other cell members only by aliases and the means by which they can be reached. This follows the classical underground "fail-safe" principle. If one element in the organization is compromised, the consequences to the entire underground will be minimal.

Realistically, however, cell members don't always practice such stringent security. In the Tupamaros, many cell members knew each other in the universities. (The level of education was so high in the Tupamaros that it was joked that you had to have a doctorate of philosophy to join.)

Cell members in most terrorist undergrounds are supposed to make contact during a certain time period—every 24 hours in most cases—to ensure that nobody has been captured or has defected. If one cell member can not be contacted during this period, then it is assumed that he or she is in trouble, and the cell disbands. When security forces capture a suspected terrorist, they are aware of this policy and, in the case of the Uruguayan security forces, as well as those of many other nations, torture—quick and excruciating—is used to break the member quickly in order to capture the other cell members before contact is attempted.

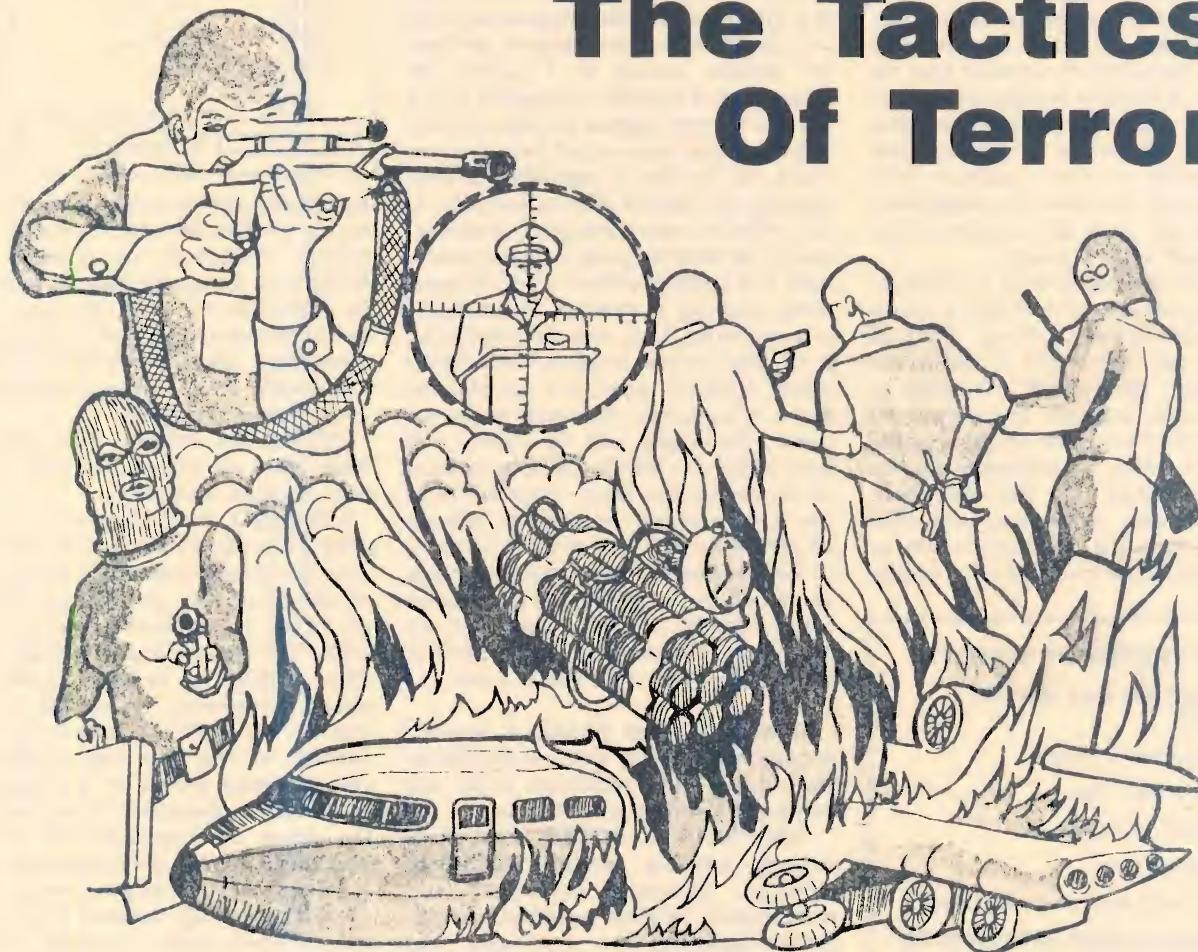
The basic cells may be organized on a geographic or functional basis, or a combination of both. Cells may be highly centralized, with orders flowing from a high command throughout the organization. This system is more efficient, but it makes the entire underground more vulnerable to penetration by government security agents. Another method is to decentralize the terrorist organization, with cells operating autonomously. This reduces vulnerability.

Five Cell Organizations—There are five fundamental cell organizations which are found in typical terrorist undergrounds: operational, intelligence, auxiliary, parallel, and series.

(Continued on page 68)

Whatever Means Available:

The Tactics Of Terror



Terrorist tactics and strategies have evolved from many years of revolutionary activities pioneered by master revolutionary terrorists . . .

By Carl H. Yaeger

ILLUSTRATIONS: DEPARTMENT OF THE ARMY

TERRORIST GROUPS are the first to acknowledge that they operate from a position of weakness. As one spokesman from the Palestinian Liberation Organization commented, "We set off bombs in Israeli marketplaces and hijack airliners from countries who are sympathetic to our enemies because we don't have the tanks, or the planes to shell and bomb refugee camps nor do we have legions of well equipped soldiers. We wage war with whatever means are available to us."

"With whatever means are available to us." This phrase, by itself, explains much about the unconventional tactics that terrorists have used against the soft, vulnerable infrastructure of the democratic Western nations. These tactics have often baffled the law-enforcement and military tacticians in the countries under attack but

actually, these tactics have been around, in various forms, for well over a century.

Terrorist tactics and strategies have evolved from many years of revolutionary activities pioneered by master revolutionary terrorists such as Robespierre, Lenin, Stalin, Trotsky, Mao Tse Tung, Castro, Guevara, and Arafat. The master strategies were developed for the more modern terrorists by writers such as Marx, Engels, Marighella, Fanon, Marcuse, Guillen, and others who seek political solutions through violence.

The modern terrorist generally subscribes to the same theories developed in years past, however, the advances in technology, the easy availability of funds, and intense political and religious motivations have brought the terrorist into the mainstream of political, military, and even

diplomatic life. The advanced communications, access to the mass media the world over, and the easy availability of weapons and sophisticated equipment, make today's terrorist organizations effective fighting forces and an extremely formidable enemy.

The tactics and methods of various terrorist groups must, of necessity, vary from place to place depending on the political, social, historical, and geographical factors. The tactics which at times seem random and even senseless, are actually set patterns which, when examined, provide a good deal of information on how a particular terrorist organization lives, plans, and executes its missions.

The most common strategy of terrorists is to commit acts of violence which will draw the attention of the people, the

The Tactics Of Terror

government, and the rest of the world, to show the terrorists' political or other goals, or in some cases, to point out a grievance or plight. Practically all terrorists have the advantage of modern instantaneous communication and the news media prevalent in the West. Terrorism is "theater," and media coverage is a force multiplier. Television coverage can make an insignificant terrorist group seem like a global movement through mass exposure.

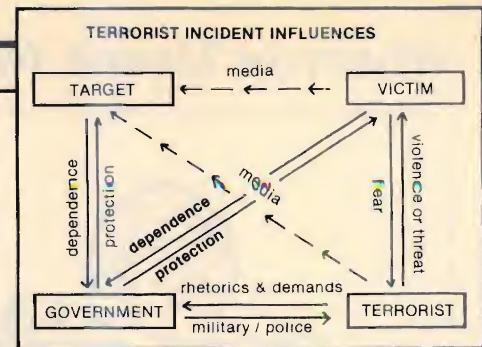
The basic terrorist strategy is intimidation by fear in order to influence or coerce a government to make political, social, or other changes. The victim is seldom the actual target. He is simply the vehicle to reach the target audience. The terrorist act draws the attention of the people, and the government which is responsible for the people's protection. The fear and intimidation generated by terrorist acts then influences the target population which, in turn, pressures the government to cave in

to terrorist demands. So, the actual target of a terrorist act is either the general public or a specific sector of society or, perhaps, the decision makers in a society. By threatening or actually carrying out acts of extreme violence against a victim, the terrorist produces fear—an all pervasive fear which can paralyze a population psychologically, and the will of the government to take effective countermeasures. Simultaneously, the terrorist group puts the government in a position where it must do something, *anything* to maintain its credibility as a protecting force with the population. In a typical terrorist incident, the terrorists make demands upon the government which, in some way, must react to the terrorists, the target, and the victim. The mass media—at least in the open societies of the democratic West—plays a critical role in transmitting the demands between all parties involved in a terrorist incident. In such a scenario, the terrorist's force is multiplied by the media, the government loses credibility, and the victim? Well, he doesn't really count, except as a pawn of those forces which have him in a vice.

Terrorist Incident Phases—A terrorist incident is a complex series of operations; the result of days, sometimes weeks and months of planning and rehearsal.

PRE-INCIDENT PHASE: This phase includes extensive terrorist intelligence activities, planning, rehearsals, and coordination. Detailed surveillance is conducted including the observation and studies of patterns of human targets to ascertain the best location of attack. Considerations, in most cases, are given to political impact, possible counter productivity, and the reaction of the population. Reconnaissance is conducted on several targets for multiplicity, sequence, and security. In other words, secondary targets might be attacked at the same time in order to confuse counter-terrorist forces or, to create the illusion that "they are everywhere."

Terrorist leaders usually do not reveal



the actual target to group members until the last possible moment to prevent compromise. Rehearsals are normally conducted in an area geographically similar to the target area, but there have been cases, such as the Aldo Moro, and other ambush/kidnapping, where the terrorists rehearsed the vehicular urban ambushes only once . . on the victims themselves.

INITIATION PHASE: This phase includes three sub-phases; assembly, movement to target, and attack.

ASSEMBLY: It is here that the assault group assembles by individuals moving to a pre-determined point from many different directions. This point will usually be a safe house or area used just prior to the strike. The group will put on disguises or other clothing to be used during the assault. Documents, if needed, (maps, false ID, etc.) will be issued to the team members at this time and coordination with any other groups or individuals involved in the operation will be finalized. The means of communications will be established, and the final aspects of security for the strike will be gone over to make sure that everybody involved understands them. When it comes to security, terrorist groups are at their most paranoid, so it is emphasized continuously throughout all phases of a terrorist incident. It is here, with the final briefing, that the terrorist leader reveals the actual target to the group.

MOVEMENT TO TARGET: This is when the terrorist group is the most vulnerable to being apprehended by the authorities. The driver of the vehicle may commit a traffic violation, or a member of the group may be recognized. Weapons and/

(Continued on page 70)

OTHER TERRORIST TARGETS

ENGINEERING AND ENERGY SYSTEMS

- Hydroelectric plants
- Offshore oil rigs
- Nuclear facility sites
- Gas pipelines
- Dams and electric power lines

COMMUNICATIONS AND SUPPLIES

- Communication lines and facilities
- Chemical storage sites
- Dock facilities
- Equipment warehouses
- Chemical storage sites
- Computer facilities
- Weapons storage sites (special and conventional)

TRANSPORTATION

- Rail lines and cars
- Bus depots
- Airports and aircraft
- Trucking facilities
- Shipyards

HUMANS

- Embassy and government officials
- Corporate executives
- Police
- Members of military forces
- Dependents of the above

Not an all-inclusive list. Targets may change as we increase the security of the most sensitive and symbolic targets.



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famous, exotic knives. Turn the page to view our full selection.

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The Kris—War Sword Of The Pacific Islands

As the war weapon in Indonesia for more than 1200 years the infamous Kris has long been feared for the particularly vicious wounds that the serpentine blade inflicts. Used with extreme effectiveness during the Filipino Insurrection at the turn of the 20th century.

The Kris offered here has been crafted in the Philippines according to time honored methods with 9 sharp curves along the 20" double edge blade. In ancient times the Kris was made from meteoric ore; today this Filipino Kris surpasses the average Kris in Indonesia in strength due to its more substantial tang. A 1" brass bolster reinforces the traditional water buffalo horn handle that's accented with a diamond-shaped butt plate. The water buffalo hide sheath includes a thin waist or shoulder strap. Now you can add this prestigious edged weapon from halfway around the world to your collection. #3-SR-247. . . . \$44.00.

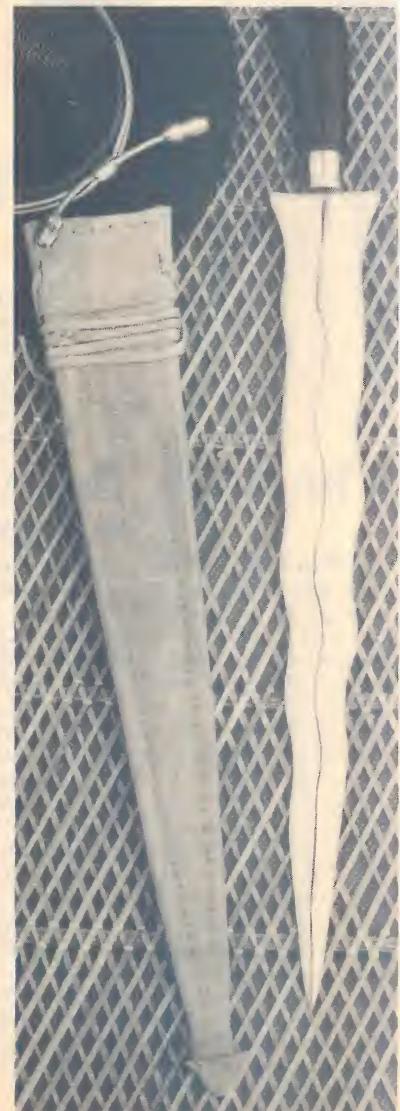


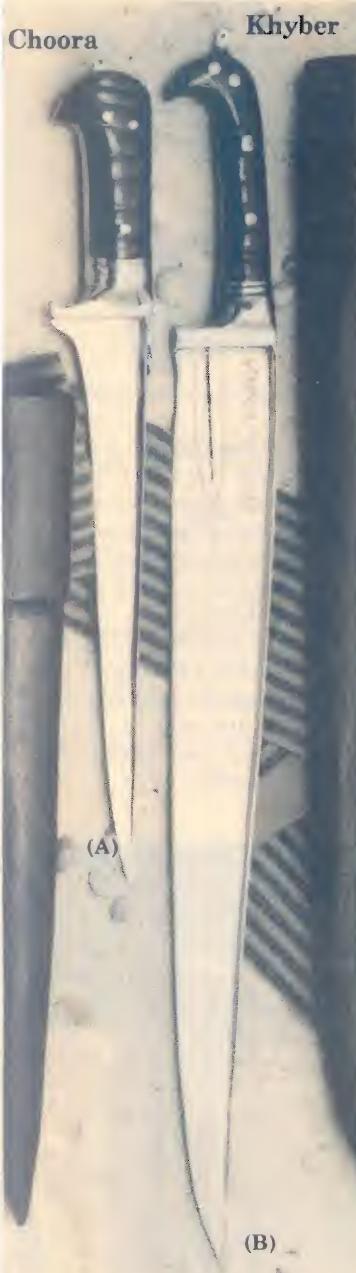
Philippine Kris Dagger

During the Philippine Insurrection, the fierce Moro warriors shocked the U.S. Army when the .38 S & W revolver failed to stop their charges. One of their favored edged weapons was this Kris dagger. The wide sensuous curves make it one of the most intimidating edged weapons in the world. This Kris, captured during the Insurrection, has a 12 $\frac{1}{4}$ " long, high carbon steel blade that holds a razor edge.

The curled integral crossguard, the steel bolster and the buffalo horn handle are duplicated faithfully from the original. Measures just 16 $\frac{1}{4}$ " overall and weighs only 14 oz. It's a lightning fast and grimly effective weapon in close quarter, hand-to-hand combat. Wood sheath is trimmed with brass fittings.

#3-SR-253. . . . \$25.00





For Hundreds Of Years Fighting Knives Have Now These Hand Forged Knives (Still) Are Ready For Your Fighting Needs

The CHOORA Knife

(A) Remarkable close combat knife designed when men wore armour of chain mail. **The secret is the T-shaped blade back**—a full $\frac{3}{8}$ " wide. Provides excellent penetration power and lets rest of blade remain thin enough to take a razor sharp edge. The best of both worlds for a fighting knife blade! Still regularly carried by the Mujahadeen Freedom Fighters of Afghanistan. Identical to the Pesh Kabz used in Persia and Northern India. The 11 $\frac{1}{4}$ " long blade is 1 $\frac{1}{2}$ " wide at the hilt. Tapers quickly to strong needle point. Genuine, polished horn grips. Traditional sheath made of black leather and lined with wood. 16" long, overall.
#1-SR-153. . . . \$35.00.

The KHYBER Knife

(B) The "Defender Of The Afghan Homeland" for centuries. Carried today by the Pathan Freedom Fighters of the Khyber Pass area of Afghanistan. They've used the Khyber Knife to finish off the British many times and currently are busy killing Russians with them. **The hand forged, hand ground and hand polished blade is 18" long and 1 $\frac{1}{8}$ " wide.** Overall length—24 $\frac{1}{2}$ ". Genuine horn handle with partial knucklebow and iron bolster. Traditional sheath made of leather and lined with wood. These tribesmen carry the Khyber thrust under their belts.
#1-SR-127. . . . \$49.95.



Battle Tested KINDJAL

(C) One of the most efficient fighting knives ever devised. Favored by the Afghan Freedom Fighters. Easy to wield swiftly in hand to hand combat. Identical to the ones currently being used to resist the Russian invaders. **The 16 $\frac{1}{4}$ " long, double edge dagger blade** is long enough to impale an enemy and is hefty enough for chopping. Hand forged by native tribal

smiths with a diamond cross section structure, 1 $\frac{1}{2}$ " wide, with a deep blood gutter on each side. Genuine **buffalo horn handle** with integral pommel. Overall length—22". Comes with traditional metal-tipped sheath made of leather with wood lining.
#1-SR-125. . . . \$25.00.

The Knife That Challenged 3 Continents

(D) The Arab Jambiya pattern dates as far back as the iron age. Made famous by the Moslem invasions throughout Northern Africa, Spain, Greece, Turkey, Central Asia, India, Persia and Java. Adopted by local armies everywhere the Moslems fought so that the Jambiya became the most widely used fighting knife in the world. The hooking point perfectly suits the whirling style of knife fighting that expert Arab fighters perfected. The outside curve adds greater power and length to the slicing stroke. The inside curve allows for increased chopping action. This 8 $\frac{3}{4}$ " blade has a $\frac{1}{4}$ " thick, **protruding mid-rib** which reinforces the point, gives the blade extra rigidity and lets the rest of the blade be thin enough to take the keenest edge. The customary, buffalo horn handle has a tooled, nickel silver band and brass medallions with traditional Arab geometric decorations. The wooden sheath is completely wrapped in brown leather and leather lacing. Arab warriors preferred to wear the Jambiya with the sheath hooked through the belt in front to be able to draw the knife suddenly. Today, the Jambiya is a symbol of the rites of passage to manhood, a definite sign of status and is used in rituals of oath taking and contract making.
#1-SR-154. . . . \$39.95



Jambiya

(D)

Years These 8 Fierce Triumphed In War

*Carried In The Mid-East Today
l Pack Or Your Collection*



Genuine Gurkha KUKRI

(E) This Kukri is the best chopping weapon you can carry. Used with devastating effectiveness by the famous Gurkhas of Nepal in the Siege of Lucknow in 1857, in the trenches of WW I France, throughout the New Guinea jungle in WW II, and with distinction in the recent Falkland Islands battles. **Very versatile in the field.** Cuts tent pegs, splits firewood, clears brush, chops saplings, quarters a chicken, digs a hole—it even slices meat well! **The 12" blade is an impressive $\frac{1}{4}$ " thick** with deep grooves and the traditional religious notch. This hand forged, high carbon steel blade takes a good, sharp edge without difficulty. Scale tang. Traditional, native hardwood handle. Standard metal butt plate. Overall length—17". Weight—1 lb. 6 oz. **Brand new! Genuine military issue to Gurkha Regiments in India.** Direct from the current government contractor. With each Kukri you'll receive a copy of the 8-page government contract and the ordnance drawing and spec sheet. Also comes with accessory knives and black leather sheath with native wooden lining. #1-SR-120. . . . \$19.95.



Gigantic Ceremonial Kukri

(F) Beheads water buffaloes with a single stroke in traditional Gurkha sacred ceremony held just once a year. **Very scarce! Only one issued to each Gurkha Regiment in India.** Beautiful fit and finish, reflecting the extra care that a sacred ceremony deserves. Specially carved and polished native hardwood handle. The polished steel blade is a staggering $\frac{3}{8}$ " THICK! **More than 2½ feet long overall.** Blade is 22½" long. Weighs 4 lbs. 6 oz. From a recent contract overrun made by the government contractor for Kukri knives. Comes with large leather sheath with brass fitting. #1-SR-133. . . . \$79.95.

Officer's KUKRI

(G) Powerful chopping knife issued to Gurkha Officers in India. The 9½" long, hand forged, high carbon steel blade is a hefty $\frac{3}{16}$ " thick. **The contoured handle is genuine buffalo horn.** Brass pommel and bolster. Overall length—14". Weight—1 lb. 3 oz. Brand new from the current government contractor. Comes with 2 accessory knives and the regulation sheath issued to Gurkha Officers. #1-SR-126. . . . \$21.95.

Comes with copies of the government contract, ordnance drawing and spec sheet and a verifying letter from the Colonel of the Regiment.



(G)

(E)

Sacred Weapon Of The Sikh Warriors

(H) This fierce fighting knife has always been an important part of the battle dress of the Sikh religious warriors. Formed about the year 1500 in Northern India, this Hindu sect opposed the caste system and fought many battles against its neighbors while wielding the Kirpan. **Several cherished symbols adorn their Kirpan**, such as the Symbol of Sikhism stamped into one side of the blade. On the other side is the Symbol of the Creator in the Gurmukhi language and another sign which attests to their firm belief in one God. The brass pommel in the form of a bird's head represents the falcon carried by their Guru.

We had these Kirpans made in India by the official Government contractor for the Gurkha Kukri knives. Overall, this 13¼" long fighting knife has a **9¼" long steel blade which is greatly enhanced by its impressive $\frac{1}{4}$ " thickness.** Brass guard, bolster and pommel frame the native hardwood handle accented by the brass chain. Canvas sheath lined with wood has polished brass fittings. #3-SR-251. . . . \$39.95.



Kirpan

Regimental
Kukri

Ceremonial
Kukri

(F)

(H)



"All Weather Protection"™ Sword Umbrella

This "All Weather Protection"™ sword umbrella helps keep you dry - and safe from muggers!

The sharp ten inch surgical stainless blade, hidden in the telescoping umbrella shaft, is always ready for use.

- **DEADLY PENETRATION:** This surgical stainless blade has a 2½" long, precision ground, tapered point, specifically designed for deep penetration (we drove one through a steel helmet with no deformation to the blade or point). This blade is spring tempered so that it can flex up to 30° and never break or take a set.

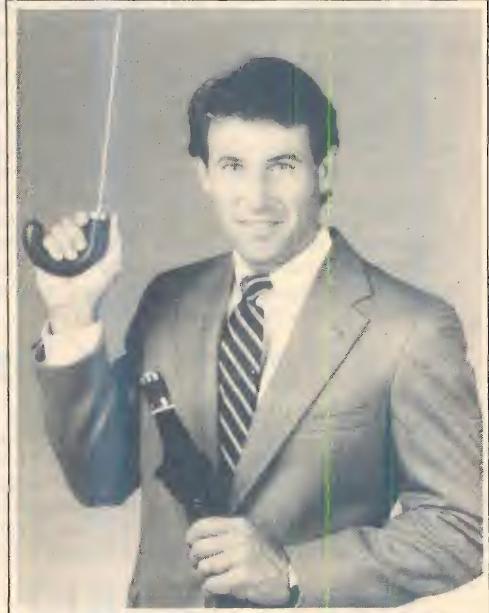
- **LIGHTNING FAST DRAW:** The blade and umbrella lock positively together, yet you can draw instantly - quick-as-a-wink! The sight of this deadly sword appearing in your hand as if by magic is enough to strike fear in the heart of any would-be mugger. It gives you peace of mind to know it's always ready when you need it.

- **QUALITY:** The special lock mechanism has 84 separate machining operations in manufacture. The classic nylon umbrella-the kind found in the finest specialty shops-is the best obtainable. Chosen from over 175 umbrellas made all over the world, this one is the best of them all. Umbrellas of comparable quality (without the sword, naturally) cost about \$25.00 in fine stores.

The umbrella mechanism is totally separate from the blade locks. Our exclusive **double lock system** prevents accidental openings - it keeps your self-defense blade hidden from all except those you choose to show.

Of course, YOU can draw the blade instantly!

*A Secure
Double Lock
System You
Can Open
Instantly*



Our carefully developed, double lock system keeps the sword blade securely hidden until you decide to reveal it. From double locked to unsheathed and ready takes only two seconds.

- **IT'S LIGHTWEIGHT:** Only 18 oz. Telescopes to just 18¼" overall. You can easily carry it in your briefcase, glove compartment, trench coat pocket, or comfortably in your hand. Finally, you can get a good looking, folding sword/umbrella combination at an affordable price. You can carry this sure self-defense item right out in the open and it's virtually undetectable. Comes gift boxed with black nylon storage sleeve. Instructions included. #3-SR-222. . . . \$49.95.

Patent Information:

United Kingdom (British) Patent
Office No. 1025873 (1985).
United States Patent Pending



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- #1-SR-153 Choora @ \$35.00
- #1-SR-127 Khyber @ \$49.95
- #1-SR-125 Kindjal @ \$25.00
- #1-SR-154 Arab Jambiya @ \$39.95
- #1-SR-133 Ceremonial Kukri @ \$79.95
- #1-SR-120 Gurkha Kukri @ \$19.95
- #1-SR-126 Officer's Kukri @ \$21.95
- #3-SR-251 Kirpan @ \$39.95
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SURVIVALIST DIRECTORY

THIS IS A CONFIDENTIAL listing of survivalists who wish to become known to others of like mind. *American Survival Guide* will accept properly coded mail and forward it to the coded addresses without charge. *American Survival Guide* accepts no responsibility for the contents or results of these confidential communications. Mass mailings are not permitted.

ASG 0201

Hixson, Tennessee, knowledgeable family looking to relocate with a person who has a ranch, farm, or large tract of land away from cities, and needs someone to live and work on the land.

ASG 0202

Odessa, Texas, Live Free member would like to organize group in Permian Basin area. No Rambo types, racists, religious fanatics, please. Individualists, self-reliant, and realists welcome. Also desire networking/trade/communication with other groups and individuals in west Texas and southeastern New Mexico.

ASG 0203

Dallas, Texas, lady truck driver, 32, traveling 48 states, seeks to meet survivalists everywhere. Experienced with martial arts, pistols, natural healing, varied skills and interests.

ASG 0204

Oak Harbor, Washington, military man with family would like to correspond with families or individuals nationwide for exchange of ideas, knowledge (not dreams) on all aspects of homesteading, long range survival esp. weapons, home security, food storage, primitive trades, tools, etc. Racists, anarchists or group recruiters need not reply.

ASG 0205

Kinston, North Carolina, Lee's Survival School is looking for avid survivalists in the North Carolina area to form statewide survivalist group. No communists. Serious inquiries only.

ASG 0206

Central Florida, survival group seeking family and individual members. Mature self-sufficient individuals of all ages to join in mutual assistance during crisis times. Willing to learn, train, and teach in defense of freedom.

ASG 0207

Baltimore, Maryland, seeking contact with survivalists and survival groups in Maryland, especially the Baltimore and surrounding areas.

ASG 0208

Northeast Mississippi, would like to hear from survivalists in Mississippi and surrounding southeastern states. No gun wavers. Patriotic.

ASG 0209

Des Moines, Iowa, family of three, late 20s and early 30s, boy 1 yr. Interested in meeting with individuals/groups in the area interested in survival activities. Extensive emergency medical care experience and emergency disaster management education. No extremists need respond. Low profile philosophy, motivated, self-sufficient types desired.

ASG 0210

Boulder, Colorado, 34-year-old physician seeking partners in the development of a survival homestead/community in the foothills west of Boulder. Looking for family oriented, progressive people only no far-right or paramilitary types, please.

ASG 0211

Ottawa, Illinois, family wishing contact from families in nearby communities interested in forming survivalist group. Only serious please contact.

ASG 0212

McClain County, Oklahoma, would like to hear from other survivalists in the south central Oklahoma area. Interested in forming small 5 to 8 person survival group. Especially would like to hear from survivalist doctor or paramedic. Open to all. Also would like to correspond with any other survivalist or survival groups in a 150-mile radius.

ASG 0213

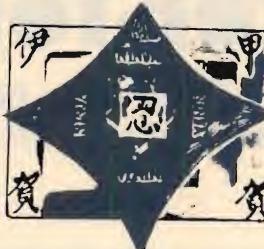
Southwest Georgia, North Florida, persons seeking to start group of true survival minded people. To train and learn together as a group. Military, law enforcement, and families welcome. No racists, crazies, dopers.

(Continued on page 61)

NINJA WEAPONS



P-60 NJ Patch
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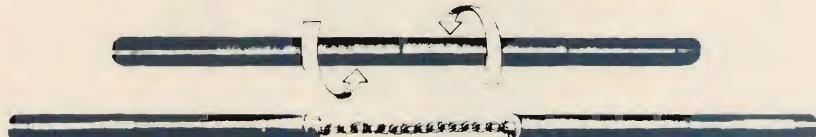
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W-217 Ball Bearing Chain Hide-A-Chuck
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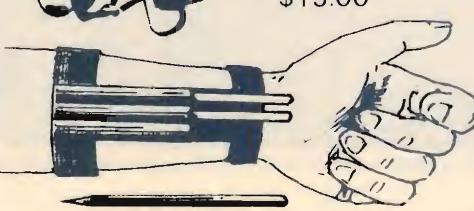
NJ Shoge Hook-Knife
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Delta Force, SAS, GSG-9, Others:

Counter-Terrorism Forces

The nations of the West have begun to understand that terrorism must be fought on all levels . . .

By Michael Pietrantoni

PHOTOS: DEPARTMENT OF DEFENSE



Helicopter insertion and extraction techniques are practiced by Delta Force commandos.

FOR 15 years now, since the Munich Olympics, we have seen on a regular basis the images of terrorism. Those images of horror, of mangled limbs and dead innocents, repeated again and again, have begun to have an effect, though not the one the terrorists had bargained for.

Just as Hitler miscalculated the effect of his blitz on London (it was supposed to demoralize and drain the will to fight of the British), so too have the terrorists miscalculated the effects of their tactics.

Slow to respond at first, the nations of the West have begun to understand that

terrorism must be fought on all levels, including the use of force when appropriate. With this understanding has come the creation of military, police, and security forces specially trained in the role of counter-terrorism. Some of these units have already had spectacular successes in dealing with terrorist incidents. Others are still untried, but continue to train, learning more from each new terrorist attack and from other more experienced counter-terrorist units.

This article will serve as a brief introduction to some of the more well known and successful counter-terrorism units currently deployed by Western nations. As the threat of terrorism grows, more and more nations can be expected to field their own counter-terrorism forces. Ever so slowly the tide is turning against the terrorist. Nations and peoples are fed up and beginning to demand action against terrorism. While it will be left up to each individual country to determine when to use its counter-terrorism forces, there can be little doubt that over the next few years we will begin to see an overall increase in the use of such forces.

The SAS—Recognized the world over as one of the best counter-terrorism forces is the Special Air Service, SAS, of Great Britain. This elite military unit began in World War 2 as a deep reconnaissance and sabotage force. That role remains an integral part of the SAS mission today. In fact, the SAS and their Royal Navy counterparts, the Special Boat Service, SBS, played a vital role in the recent Falklands war.

It is for its role as counter-terrorist unit however, that the SAS has become well known. Most of the other Western counter-terrorist forces have patterned themselves on the SAS model.

The current authorized strength of the three SAS regiments is 750 men. Since the prestige, though not necessarily career advancement potential, of serving in the SAS is great, there are many more applicants than places available for them. 95 of every 100 applicants fail to complete the 17-week training period required by the SAS.

Training for the SAS trooper is grueling. Physically, the trooper must develop near super-human endurance to complete the training course. One of the tasks demanded of the SAS recruit is a 40-mile



With Delta commandos aboard these Sea Stallion helicopters, Operation Evening Light—the attempted rescue of American hostages in Iran—is about to begin.

cross country forced march, done alone, across the Brecon Beacons, an incredibly difficult and dangerous piece of terrain. The recruit is given 20 hours to complete this task which is made more difficult by the complete combat load (55-lb. Bergen rucksack, rifle, ammo) which he must carry. Deaths of trainees are not unknown during this period of the training course.

SAS troopers are highly trained in weapons skills. All operatives must become expert at handling a wide variety of weapons, from knives and bayonets to small arms, mortars and grenades. The training includes the weapons of foreign countries which are often found in the hands of terrorists. All members of the SAS are parachute qualified and are skilled in demolitions, communications and first aid.

Entry into the SAS is not solely dependent upon physical prowess. The SAS trooper must be emotionally stable and psychologically prepared to complete his mission. Throughout his training and his career in the SAS the trooper is constantly evaluated as to his emotional and psychological health. Intellectually the trooper must be far above average, and must spend hours in classrooms learning, among other things the psychology and motivations of the terrorist.

Perhaps the most famous incident in which the SAS was involved was the 1980 takeover of the Iranian embassy in London. Seized by six Iranian Marxist terrorists, the embassy was held for six days. During that time the SAS prepared models of the embassy and a plan of attack in case the negotiations failed. When a hostage was killed on the sixth day of the siege the SAS were ordered into action.

The SAS assault plan, code named Nimrod, involved 12 troopers. These men had studied the blueprints and plans of the building as well as photos of those who were known to be held hostage in the

embassy.

When the assault began at 7:30 at night it was in full view of news network TV cameras which had been covering the crisis. The SAS men, garbed in black outfits, faces covered by gas masks, were seen as they crossed from an adjacent balcony to the balcony of the embassy. At the same time in the rear of the embassy two teams of SAS troopers were rappelling down the side of the embassy building. At a given signal the teams in the rear of the building blew off the window frames, while those on the balcony threw stun grenades into the embassy. For 11 minutes those outside or watching on TV could hear shooting and explosions from within the embassy. Exactly 11 minutes after the assault began it was all over. All the hostages were rescued, five of the six terrorists were killed, and none of the SAS troopers were hurt.

The Germans—In 1972 the Federal Republic of Germany, along with the rest of the world, was confronted with the depravity of the modern terrorist. During the Olympic Games then being held in Munich a group of PLO terrorists were able to seize the Israeli Olympic team. The Germans, though well intentioned, were completely unable to gain control of the situation. The resulting bloodbath in which all the hostages, terrorists, and a German police officer died convinced the German government that it needed a competent counter-terrorism force. Thus was born GSG-9.

GSG-9 or Border Protection Group-9 is a part of the 22,000-man-strong West German Border Police force. All members of the unit are recruited from within the Border Police ranks.

Entry into GSG-9 is not easy. The potential candidate must have a minimum IQ score of 110 and pass a two-day battery of physical and psychological tests. Passing

these tests gains the candidate a place in a six-month training course, which only 1 out of every 10 recruits will complete. Training is broken into two sections. The first part, lasting about four months, deals with the practical aspects of counter-terrorism work. Weapons training, hand-to-hand combat skills, parachuting, scuba diving, stunt driving, rappelling, and lock picking are just a few of the areas in which the GSG-9 recruit is trained. Assault techniques are practiced on mockups of airlines, railroad trains, buildings, and ships. Air insertion and extraction skills are also taught using helicopter's hovering over a fixed point.

The second section of training is basically classroom work where the GSG-9 operative studies the motivations and psychology of the terrorist. Much time is devoted to the underlying philosophies of various terrorist groups. Also studied are the linkages and differences between the groups.

Once training is completed the new GSG-9 member will be assigned to one of four "action groups," each of about 30 men. These action groups along with a specialist group and headquarters and intelligence section compose the total GSG-9 force. Each action group is capable of operating independently thus allowing GSG-9 to handle more than one incident at a time.

GSG-9's baptism of fire came in October of 1977 when a Lufthansa 737 with 86 passengers aboard was hijacked by four Palestinian terrorists. GSG-9 was alerted to the hijacking and within hours had a group of 30 commandos enroute to Cyprus, where the plane had landed to refuel. Before the GSG-9 contingent landed however, the terrorists forced the 737 back into the air for what was to become a four-day, 6,000-mile cat and mouse game. Eventually, after killing the pilot of the 737, the terrorists decided to make a stand at the Mogadishu airport in Somalia. Here the terrorists set a deadline, announcing that if their demands were not met they would blow up the aircraft along with the passengers and themselves.

By this time two GSG-9 teams were at the scene along with two SAS men loaned to the Germans by the British. The SAS men brought with them a new SAS invention—the "flash-bang" stun grenade.

Thirty-eight minutes before the terrorist deadline, GSG-9 began its assault on the plane. The doors were blown off the plane with explosive charges placed by GSG-9 commandos. The commandos had managed to scale the side of the plane, place the charges, and get away undetected. Once the doors were clear the assault force attacked using the SAS "flash-bang" grenades. Within seconds two terrorists were killed, one critically wounded, and the last a female terrorist, wounded by seven shots. The entire assault was over in five minutes. All the passengers were saved and none of the GSG-9 commandos were

Counter-Terrorism Forces

killed or wounded.

Delta Force—“Surprise, speed, success”
—This is the motto of the elite U.S. counter-terrorism team known as the Special Forces Operational Detachment—Delta, or more popularly as Delta Force.

Created in 1977, Delta has been used operationally only twice. The first time, during the ill-fated Iranian hostage rescue attempt in 1979, and the second during the U.S. invasion of Grenada in 1983.

Delta's primary mission is counter-terrorism and hostage rescue. Based at Fort Bragg, North Carolina, the unit has a total strength of between 100 and 200 “operators,” as the members call themselves. Recruits are primarily drawn from Special Forces (Green Berets), and Ranger units, with a lesser number coming from “specialized” units.

Though deployed on only two occasions Delta has been on-scene as observers or technical assistants in as many as 50 hostage situations around the world in the last half-decade. Delta was also deployed within the U.S. on at least three separate occasions in the last few years. During the 1984 Olympics and the Presidential inauguration of the same year Delta operators were on alert, as they were during the 1986 Statue Of Liberty celebrations in New York City.

Delta was modeled on the British SAS with whom Delta's first Commanding Officer, Colonel Charles Beckwith, served in 1962-63. Like the SAS, Delta uses a squad-troop-squadron structure. The basic unit is the four-man squad which can be combined with three other such squads to form a 16-man troop. For larger operations, such as those undertaken during the invasion of Grenada, two or more troops can be combined to form a squadron.

As with any such elite unit, entry requirements for Delta are quite high, and only a small percentage of volunteers are accepted. Numerous psychological interviews are combined with a grueling multi-hour session during which the potential Delta member is questioned by a board of Delta officers and NCOs. This board does its best to “rattle” the recruit, using questions which have no correct answers, but which must be answered nonetheless, and through other psychological ploys designed to test the recruit's ability to handle stressful situations.

Training for Delta members includes the usual counter-terrorist specialties, with emphasis on weapons familiarity and marksmanship. Delta commandos are required to hit all of their targets at 600 yards and 90 percent of them at 1,000 yards, using Remington 40XB rifles with scopes. In addition to the standard subjects such as parachuting, rappelling, hand-to-hand combat, Delta training includes a number of more esoteric subjects such as lock picking, hot wiring of vehicles, management of hysterical or wounded hostages, etc. Some Delta commandos have even been taught to drive locomotives, a skill thought important after the 1977 seizure of a train and passengers by Moluccan terrorists.

Delta is the primary, though by no means the only U.S. counter-terrorism force. For hostage situations or counter-terrorist activities at sea the U.S. would rely on SEAL Team Six, a specially trained unit of the Navy's Sea, Air, Land (SEAL) special operations forces.

The Air Force role in counter-terrorist operations is shouldered by its First Special Operations Wing (1st SOW). The mission of the 1st SOW is the transport of special operations units into and out of

hostile or enemy territory. The unit is equipped with long range Sikorsky HH 53 helicopters which have been specially fitted with terrain following and avoidance radars. It is rumored that some of these helicopters have been modified so as to take advantage of some of the new stealth technologies.

The Army has been trying to insure its own special operations transport needs through the creation of a super-secret army helicopter unit known as Task Force 160. Nicknamed the “Night Stalkers.” TF 160 is based at Ft. Campbell, Kentucky, and equipped with Hughes 500 jet helicopters.

Other Forces—A number of other nations have organized anti-terrorist forces. Among them the French GIGN, a relatively small (50-75 man) police counter-terrorist force, and the Italian NOCS of approximately the same size. It was the NOCS which in 1982 conducted the rescue operation of American General James Dozier, who was being held hostage by members of the Red Brigade terrorist organization.

The Dutch have organized a special counter-terrorist force, the “Mariniers,” drawn from the Royal Dutch Marines. In 1977 this force conducted a well planned operation which succeeded in freeing hostages held aboard a train and in a school which had been taken over by Moluccan terrorists. No lives were lost in either assault, a tribute to the skill of the Mariniers.

Israel has a number of specially trained units which could be used in counter-terrorist roles. The most famous of these is a unit drawn from within the Israeli Defense Force parachute troops, known as Counter-Terrorist Unit 269. This is the unit which achieved worldwide notoriety when they succeeded in rescuing Israeli hostages being held at the Entebbe airport in Uganda in 1976.

The very existence of counter-terrorism forces implies a willingness to use them. No one knows how many terrorist incidents have been avoided or prevented because of the existence of these units.

With the creation of these forces the West has taken a small tentative step against the terrorist. There remains very much more to be done. Currently lacking in a number of countries is the political will to make use of the options afforded by a well trained counter-terrorist force. The recent bombing raid by the U.S. against terrorist targets in Libya may be a signal that the reluctance in the West to use force against the terrorist is no longer to be taken for granted.

In the meantime the counter-terrorist forces in the West continue to train in anticipation of the next terrorist outrage.



U.S. Army Special Forces troops, from which a large percentage of Delta Force's manpower is drawn, practice waterborne operations.



A practical demonstration of the RF/1's capabilities during testing, showing the use of shoulder-aimed weapons.

Combat/Survival: **RF/1 Gas Mask** *A new gas mask of radical design . . .*

By Richard Garrison

PHOTOS BY EARTH INTELLIGENCE—N. LADAS

IN the United States the primary mask used by the military, police and others has been the M17-A1 gas mask, though other commercially available masks have been used. Principally these gas masks have rubber face masks with single or twin lens and one or two filters made of charcoal (to absorb poison gas/toxic particles) and soda lime to neutralize the trapped toxic material.

Once again the military has produced a new protective product. This time, the British Ministry of Defense, Chemical Defense Establishment, Porton Down, United Kingdom, developed a new gas mask of a radical design—the "RF."

Initially it was developed for protection against NBC (Nuclear, Biological and Chemical) agents. The RF masks are approved and in use in the United King-

dom and other NATO countries. The RF/1 version provides additional protection against high concentrations of CS and CN tear gas.

Tear gas is not actually a gas, but an



Here is the RF/1 "Facelet" in place without the protective Bolle goggles.

extremely fine solid particle of the active agent that is usually dispensed as a cloud. Typically, the size of an active agent particle is .5 micron (1/25,000th-inch) to 15 microns, though most in the industry think 2 microns is the best size.

The M-17 is well known for its capabilities and operation. It is simple and quick to put on, easy to adjust, and to test for seal. The standard time test for measuring competence in donning the M-17 is nine seconds. However, it is somewhat bulky, awkward to use shoulder-aimed weapons with and doesn't provide a full-field of vision. Like all masks made of rubber, it also becomes hot and sweaty very quickly and restricts breathing.

The RF/1 is radically different than conventional rubber masks. It is a two-piece gas mask that is lightweight and compact, provides a full field of vision, doesn't distort speech and allows use of shoulder-aimed weapons. It is a two piece system that consists of a charcoal mask (or "facelet" as the British call it) and a pair of goggles manufactured by Bolle. The mask is like an envelope that is fitted over the mouth and nose—much like a surgeon's mask—and held in place by an adjustable elastic harness.

The mask material is manufactured of chemically treated thread and woven in a regular linen wear of 13 threads per centimeter. It is then processed at high temperatures to become activated charcoal. According to the manufacturer, Charcoal Cloth Limited, charcoal cloth is 5 to 20 times more effective than granular charcoal in absorbing gasses and vapors. It also has better airflow, can be laminated to other cloths, and performs better in high humidity conditions.

The RF/1 weighs 6½ ounces, about one-fourth the weight of an M-17 gas mask. It can be carried in a pouch 8 inches by 3 inches by 4 inches.

It takes about 15 seconds to put on the RF-1 gas mask and goggles. First, the user places the rear of the harness in position on the rear crown of his head and pulls the mask portion, with the foam seal on top section, over the mouth and nose. The bottom section of the mask goes below the chin line. The top section of the mask goes about two-thirds up the nose and then the wire form and foam is pinched tightly over the bridge of the nose. Users find that to insure an efficient seal, this pinch has to be so tight that it begins to constrict breathing through the nose. Then the goggles are put on, so that approximately ½ to 1 inch of the top of the mask is visible through the bottom of the mask. The user has to check to be sure that any loose strap ends are not between the Charcoal Cloth and the face. Another place to check for seal is the corners of the mask and be sure that they are not folded in.

In February 1986, in Miami, Florida, we held two field trials testing the RF/1 Gas Mask System. Bob Allman, Vice President of Adventure Specialists (1821 NE 146 St.,

RF/1 Gas Mask

Miami, FL 33181; 305-948-6020), the U.S. distributors of the RF/1 gas mask, provided two masks. One was a new mask and the other was one that had been returned to Adventure Specialists as being defective.

First, Allman and I stood over a pyrotechnic smoke grenade with no ill effects. Then, an AAI Corporation Multi-purpose Grenade (MPG) #120 (CS) was held high and at arm's length and discharged, covering both of us with a good layer of CS active agent. Exposed skin was irritated and burned.

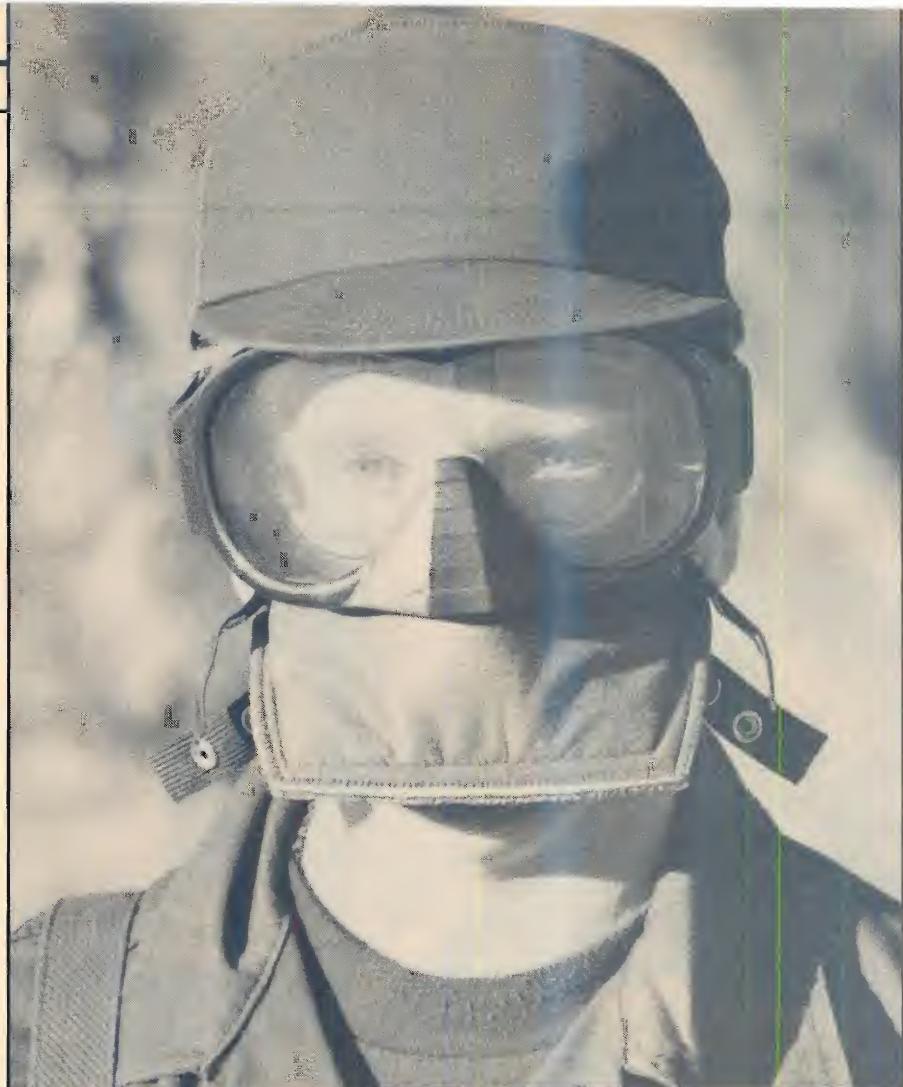
The RF/1 Gas Mask system worked very well with neither one detecting any hint of CS gas or particles while breathing. During the 15 minute test, we were able to talk to each other very easily. It was obvious that the returned mask worked well, as it protected the eyes and lungs completely. After the active agent particulate was shaken off, we took off our masks to experience the chemical agent effect, receiving a good dose of gas. During debriefing, it was concluded that the "defective" mask was not defective, but that the user had not gotten a good seal, probably because of unfamiliarity.

Second Test—The next day, another test was held. This time the same masks were used. A pair of plastic-framed teardrop sunglasses were worn under one of the Bolle goggles. A Federal CN 115 Triple-chaser pyrotechnic grenade was discharged outdoors. Wind was low and the participants were able to keep up with the main cloud of CN for 10 minutes or longer. Again, skin was irritated and I got a slight "taste" of gas in the throat, however, it was barely noticeable and did not interfere with my breathing at all. We ran several hundred yards over uneven ground and the mask did not shift or dislodge during this exercise. There was a little fogging on the interior of the goggles, but it did not interfere with vision. The seal of the goggles was excellent, sealing well over the sunglasses. All in all, the RF/1 provided full protection against the CN. During these tests, shoulder-aimed weapons were used and it was found that they could be aimed easily, with a much better field-of-view than traditional masks.

Back inside, I was exposed to a variety of highly noxious solvents, held directly under my nose for several minutes. The odors from the solvents were totally undetectable.

During these tests, it became apparent that breathing was remarkably easy. As there is no large rubber mask, the RF/1 was extremely cool. Since approximately 20 percent of the body heat and 12 percent of the sweat evaporation is lost via the face, it is easy to understand the advantages of long- and short-term wear of the RF/1.

The key to the successful use of the



Front view of the RF/1 Gas Mask system ready for use.

RF/1 is training and familiarization. It is not enough to have it, but a series of practical exercises on how to adjust the harness and put the mask and goggles on is needed, because the manner in which it is deployed is totally different to what most are used to.

The RF/1 has other advantages. You can talk in a normal tone or shout—all without appreciable muffling. The goggles have a polycarbonate lens, anti-fog treated and shatter-resistant. They are large enough to allow the user to wear prescription glasses, yet retain seal. It is easy to use shoulder-aimed weapons in normal aimed-

fire fashion with the RF/1 with no difficulty. Hats, caps and helmets can also be worn. Once exposed, the RF/1 systems can be easily cleaned with running water.

The RF/1 has a minimum shelf life of seven years, with each of the two components available separately to keep the replacement cost down. The RF/1 system is cheaper than rubber gas masks. The goggles can be worn by themselves in situations where the eyes need protection, such as explosive-entry blowback and riot/crowd control situations.

The RF/1 is also advertised to provide protection against chemical and industrial spills, smoke, pollution and decomposing bodies. Based on the positive experience with solvents, the RF/1 would seem to provide protection against other noxious and toxic vapors. The RF/1 would be ideal for issue to rescue and disaster workers, lab technicians, and persons working with noxious chemicals. Specific protection levels outside CS and CN should be obtained from the manufacturer.

The RF/1 mask and Bolle goggles are available together for \$55 postpaid from The Dutchman, Dept. ASG, 9071 Metcalf, Suite 158, Overland Park, KS 66212; phone toll free (800) 821-5157. •



Side view of the system ready for use.

Battery-Powered, Portable: Night Watch

An ingenious, simple to operate intruder alarm with home, business, campsite, police/security, sport and military applications . . .

Staff Evaluation



An alkaline 9-volt transistor radio battery powers the NightWatch system for about five months of continuous, 24-hour-a-day operation.



Insulated pure copper tripwire is run out the length of the perimeter the user wishes to establish and the ends of the tripwire are attached to the posts of the circuit being used to set up the alarm system.

NIGHTWATCH is a battery-powered portable intrusion detection system ideal for use by homeowners, apartment dwellers, business owners, campers, hunters, police, security firms, military units or anyone desiring a simple, effective means of detecting intruders.

When the special insulated copper tripwire is broken the NightWatch panel box goes into alarm status providing a blinking LED light and buzzing (10 KHz) noise. An earphone can be used so that only the

operator will hear or see the alarm signals. And two separate tripwire alarms can be set up and operated simultaneously using the NightWatch system. The alarms are set off by breaking the tripwire, thereby opening an electric circuit.

The NightWatch system can be used outdoors or indoors and is not affected by moisture. Rain, mist, snow, seawater, etc., do not affect the system's operation. The tripwire uses fully insulated copper wire and will not short or ground out if it contacts other metal objects.

The system consists of an ordinary 9-volt alkaline (these work best) transistor bat-

tery, the panel box with for posts for completing two circuits with lights, test switches and speaker, two spools with 8,000 feet of black tripwire the thickness of a human hair (handle carefully, it breaks easily), instructions and the earphone attachment.

The battery will power the system for about five months with continual 24-hour-a-day operation. However the battery will run down faster if the alarm lights and buzzer are allowed to run for long periods.

To operate, simply install the battery in the panel box as shown in instructions. Then connect one end of the tripwire to one of the posts on circuit 1 or 2 and run it out the length of the perimeter you are establishing. When the perimeter is established, break off the tripwire from the spool and attach the remaining free end to the other post on the circuit you are using. There are no tools involved. Just run the tripwire through and then wrap it around the post a few times and tighten down the cap by turning it until it stops.

A second perimeter may be established by repeating the procedure using the second circuit posts. If you use only one circuit, you must short out the unused circuit by attaching a short piece of tripwire between the posts. It's also important to cut off any excess wire protruding from the posts as this may short circuit the system.

CAUTION: Do not allow the tripwire to come into contact with electric power poles, high tension wires/towers, household current appliances, radio or TV antennas or electrical wall outlets. If the tripwire touches anything electrified there is a distinct danger of a fatal electric shock!

The staff of ASG tested the NightWatch system and found it to be quite effective. Some care must be taken when attaching tripwire to the circuit posts to insure a proper connection is made, and in running out the tripwire in establishing a perimeter as it is somewhat delicate and breaks easily (as it is designed to do). But the proper procedures for these tasks are well explained in the excellent, easy to understand instructions provided with the system.

NightWatch is available for \$75. Extra spools of tripwire (4,000 feet each) are \$6.50 apiece. California residents add \$4.78 sales tax. For more information or ordering contact The ANITE Company, Dept. ASG, P.O. Box 375, Pinole, CA 94564; phone (415) 724-1003. ●



Large Frame DA:

SIG-SAUER P 220

SIG-SAUER has what it considers to be the ultimate combat pistol . . .

By Bud Lang



This SIG P 220 in .45 ACP chambering carries seven rounds in its magazine, plus one up the spout if that isn't enough.

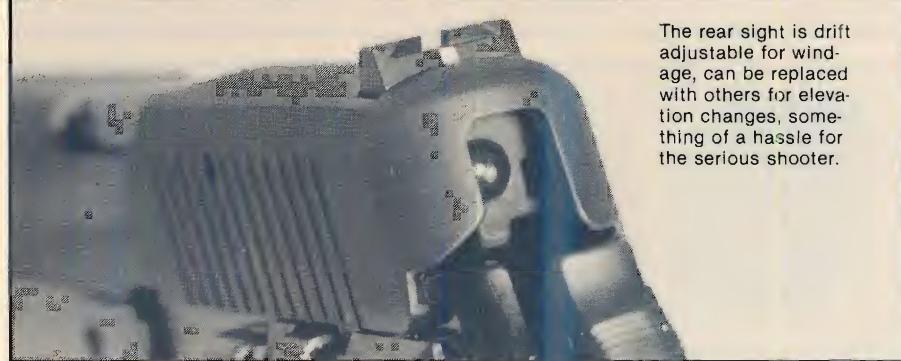
OVER 100,000 SIG-SAUER P 220 pistols are currently in use around the world, an indication of the respect this pistol has earned from shooters everywhere. As you might expect, its fame didn't come overnight, but only after proving itself to be one of the most dependable double-action pistol designs ever. An exceptionally strong, lightweight frame makes the P 220 one of the most comfortable large frame DA autos you can carry. Availability in four popular handgun calibers, from the 7.65mm Parabellum to the trusty old .45 ACP, has also helped its popularity since it offers every shooter the stopping power he or she feels is the best.

In the P 220, SIG-SAUER has what it considers the ultimate combat pistol with an unmatched service record. It's a pistol capable of withstanding extreme tests, such as adopted by military units, one with inherent accuracy, that's easy to handle.

RIGHT—Indicated here are three important buttons/levers you must be concerned with. They are: (A) the slide catch lever which will hold the slide open after you've fired the last round, or if pushed when the slide is to the rear and the magazine's out; (B) push the mag release button, and the magazine will fall free; (C) push the decocking lever down after you've chambered a round (leaving the hammer at full cock) and it will take the sear out of register with the full-cock hammer notch, making the gun completely safe.

and operate, and that doesn't present maintenance problems. In short, it serves its owner well.

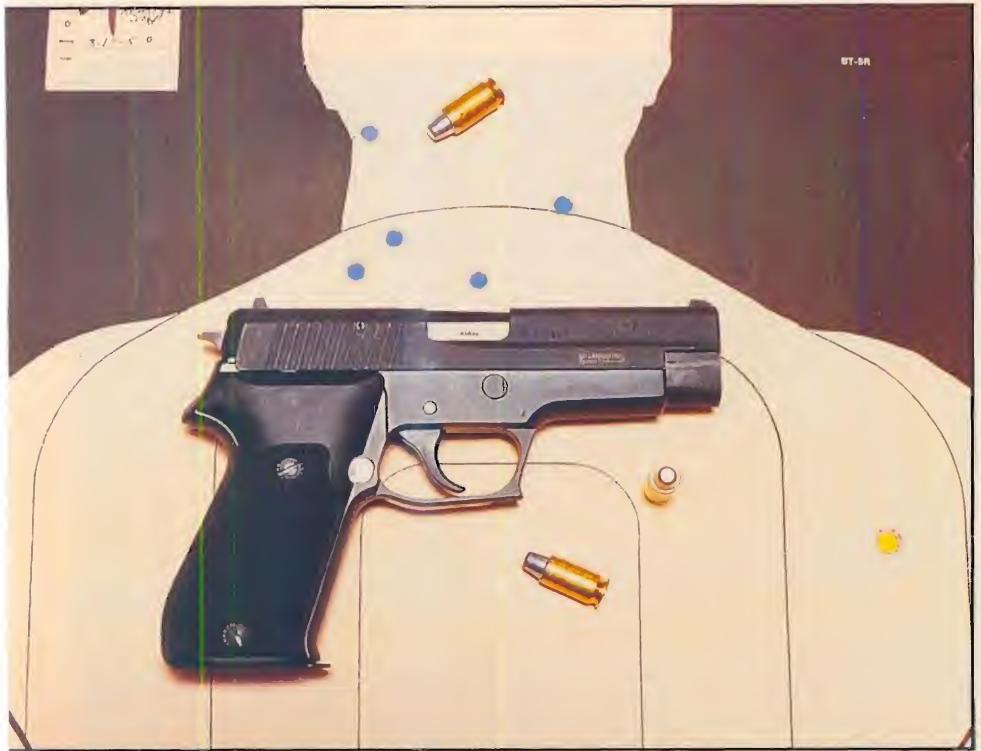
This mechanically locked, recoil-operated double-action/single-action pistol has proven time and again to be a dependable sidearm in all types of situations. The safety of the P 220 is also reassuring. A single decocking lever allows the hammer to be safely lowered into the rest position (safety intercept notch) following chambering of a live round. In other words, the loaded, decocked weapon can be carried without risk of going off unexpectedly, or accidentally. This is true under all conditions, because when the hammer is decocked, it is in register with the safety intercept notch. This safety concept is further optimized by the SIG's patented, automatic firing pin lock. The automatic firing pin lock provides optimal safety with the hammer in either the cocked or decocked position. The weapon can only be



The rear sight is drift adjustable for windage, can be replaced with others for elevation changes, something of a hassle for the serious shooter.



Press the slide catch lever up with your thumb when you pull the slide back without a magazine in place, and it will lock the slide open.



SIG-SAUER P 220 Pistol: Tech Specs

Calibers.....	7.65mm Parabellum, 9mm Parabellum, .38 Super, .45 ACP
Capacity.....	9 rounds, except 7 in .45 ACP
Barrel Length, inches.....	4.4
Overall Length, inches.....	8
Weight, ounces.....	26.5
Finish.....	Blue
Price, suggested retail.....	\$563.99
Manufacturer/Distributor.....	SIGARMS Inc., Dept. ASG 8330 Old Courthouse Road, Suite 885H Tysons Corner, VA 22180 (703) 893-1940.

fired by deliberately pulling the trigger. Another safety feature is that when the hammer is being decocked, the firing pin remains automatically locked.

Unlike a lot of handguns, the SIG P 220 is aesthetically attractive. Its lines are clean, and you know it's meant for business. It's neither overly large or bulky, nor heavy, so it's ideal for carrying, even when concealed. Anatomically correct grip plates, ideal grip angle and comfortable grip dimensions enhance rapid and accurate instinctive shooting. A squared-off trigger guard also provides the shooter with a means of better gun control during serious shooting situations.

The P 220 offers the longest sight plane of any current SIG-SAUER pistol, therefore making it inherently easier to achieve better groups. The sights consist of a simple rear sight and front blade, both with white contrast marks so as to aid in picking up sight pictures in poor lighting. The front sight post and rear sight notch are 3mm wide. Like the stock 1911 rear sight, the unit on the P 220 is adjustable for windage by tapping it to the right or left. Relative to elevation changes, eight rear sights at increments of 0.27mm are available (since there are 25.4mm per inch, these increments are close to 1/100th inch).

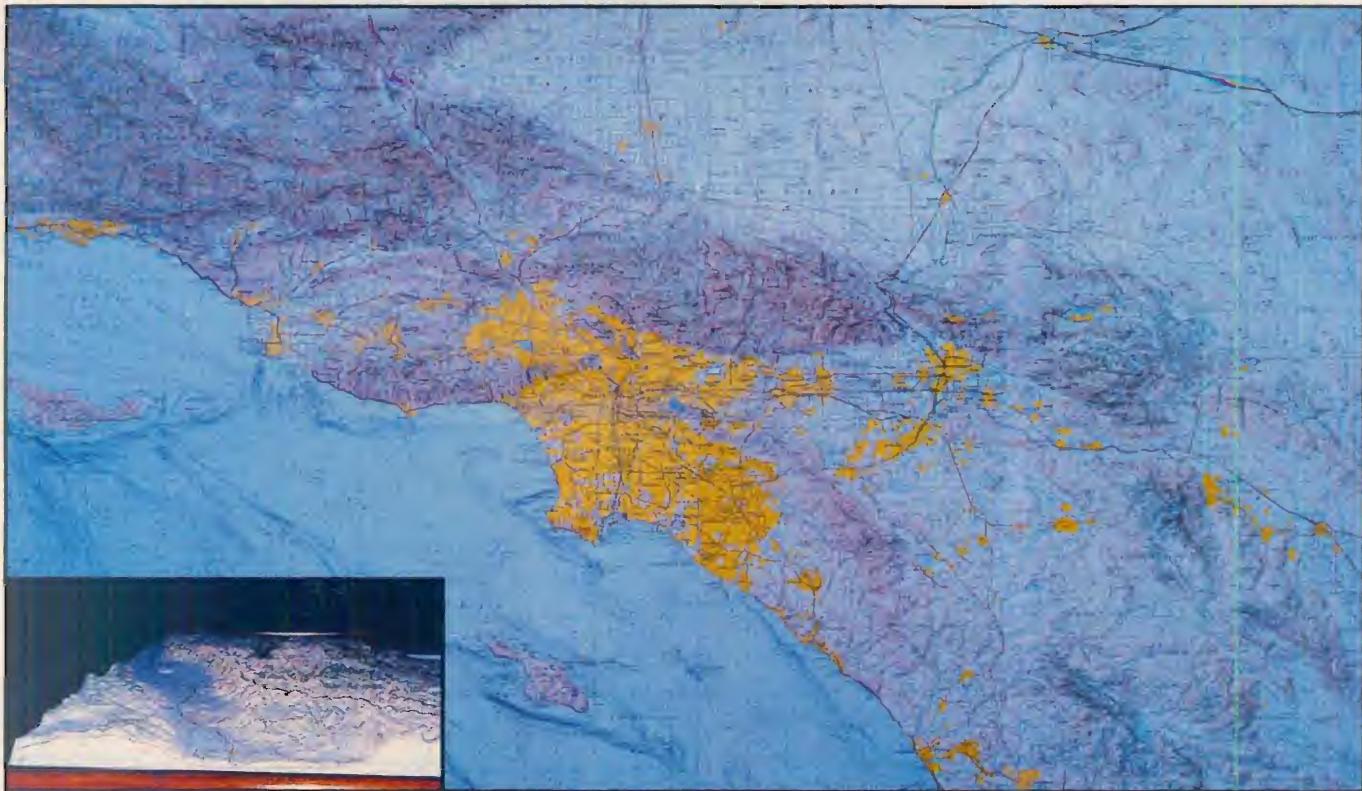
Here's a pistol that is very easy to field strip for maintenance. After removing the magazine, pull the slide back manually to its stop, then lock it open by thumbing up the slide catch lever (illustrated in photos). After assuring yourself the chamber is empty, lower the takedown lever located on the left side of the frame, just above the front of the trigger guard. At this point you can draw back on the slide a bit to free it from the slide catch lever, then allow it to slide forward off the frame. Roll the slide over and remove the recoil spring assembly then the barrel from the slide. Once you've cleaned and examined the parts, lubricate them lightly with a top quality gun lube then reassemble the parts in a reverse order.

Loading and firing this pistol is no different than most other handguns. The 7.65mm, 9mm Parabellum and .38 Super Auto all carry nine rounds in their magazines, while the .45 ACP version handles only seven. With the magazine loaded with reliable, precision ammo, insert it securely into the butt. At this point you can thumb down the slide catch lever, or simply pull back on the slide and release it, whereupon it will snap forward, stripping the top round from the mag, chambering it. The SIG is now loaded and ready to fire in the single-action mode (hammer cocked).

If you want to fire that first round double action, simply depress the decocking lever which will drop the hammer in complete safety. During this procedure, the firing pin remains automatically locked. If you fire more than one round, while that first one is fired double action, the remaining shots will be fired single

(Continued on page 53)

Air-Land-Sea:



This custom-made raised relief map of the greater Los Angeles area was put together by the specialists at A.L.S. Inset shows detail of raised relief maps.

Maps Galore

A complete line of maps, atlases and travel guides . . .

Staff Report

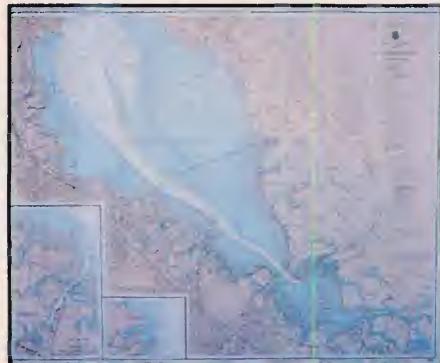
If you need a good map of the terrain around your area, a nautical or aeronautical chart, or even a raised relief map showing three dimensional characteristics of the land where your retreat is located, chances are A.L.S. (Air-Land-Sea) Maps has what you're looking for.

A.L.S. can offer you a series of topographical maps covering a 10-mile radius of your residence, 5-mile corridor along pre-selected travel routes and 25-mile radius of potential retreat areas plus associated navigational and airspace charts. They have a complete selection of 7.5-minute, 15-minute and 1-to-250,000 series topographical maps and local, national and international nautical and aeronautical charts. You can also see and feel the lay of the land in your selected area of the country with custom framed and mounted raised relief maps.

The nautical charts for anywhere in the world give water depths and bottom terrain features. The Aeronautical charts show instrument and visual flight features, including flight paths for various Terminal

Control Areas around the country and the world. Additionally, A.L.S. has a complete line of road maps and travel guides and atlases, compasses, even hiking guides for many wilderness areas.

For more information contact A.L.S., Dept. ASG, 610 North Azusa Ave., West Covina, CA 91791; phone (818) 915-5165. Ask for Jack or Noah. ●



ABOVE—A nautical chart of the San Francisco Bay area.



BETWEEN—Aeronautical charts give visual and instrument flight features and show Terminal Control Areas around the world.

SIG-SAUER P 220

(Continued from page 51)

With the slide back, lower the takedown lever located in front of the trigger on the frame, and you can disassemble the pistol.



With the takedown lever pointing down, you can now slide the entire barrel/slide assembly from the frame.

action. When the last round goes off, the slide will remain open.

Testing—In field testing the P 220, we fired a variety of ammo through it, from seven- and 10-yard distances. It is the author's contention that a defensive handgun should be tested at ranges between point blank and 10 yards, and not 25 and 50 yards as is so commonly done.

Here's the reasoning behind this kind of thinking. In most cities courts have ruled that you cannot legally fire at someone who is not endangering your life. You definitely cannot fire if they are fleeing from you. In fact, many police have been prohibited from firing at fleeing suspects, simply because "they" cannot take the law into their own hands by assuming the person running away from an assumed crime is guilty of a capital crime. In other words, the crime might not rate the death penalty, and if it did, the cop can't be judge, jury and executioner. This analogy also pertains to the citizen. Therefore, unless someone is firing at you from long range, you have no need to fire back. Furthermore, if you place all the shots you might need to fire in such an incident into a tight

group at close range, what makes you think you couldn't do as well at long range?

In actual range testing, the author seldom shoots at distances greater than 10 yards. In fact, on occasion targets have been engaged from as close as six feet. It's an eerie feeling to pull down on even a paper silhouette target at such a close range. And it's not as easy as one might think to place all hits on the target when firing rapid fire at such close range. But back to the SIG P 220.

Shooting our .45 caliber pistol from 10 yards rapid fire, we consistently could place five rounds into 3-inch (average) groups shooting offhand. This was with Remington 185-grain Jacketed Hollow Point loads. At the same range, firing slow fire, five-shot groups averaged slightly less than two inches. CCI's 200-grain JHPs performed in the same manner. We also fired some of the new defense .45s by El Camino Products (these are custom swaged bullets—expensive but exceptional). Their bullet is a 190-grain JHP which we handloaded to a velocity of around 850 fps. Firing slow fire from 10 yards we could put five of them into a 2-inch circle. Accuracywise

they are about the same as the other loads we tested. Their large cavity makes them open up quicker than most bullets, though, a point in their favor.

The importer of the P 220, SIGARMS Inc., cautions shooters to clean the gun carefully after each shooting session, field stripping it as described and cleaning the bore from the chamber end, not the muzzle. They also warn about using steel brushes to clean the bore, a step they feel will damage it. Ingress of dust, dirt and sand is reduced by the enclosed design of this pistol, which can be rated both as beneficial and a potential problem. By being designed "tight," foreign matter has a tough time getting into the gun. It also means you have to keep the gun clean "because" it is so tight.

We're not stating the SIG P 220 is the best handgun around, far from it. But there are few features we dislike about it, and it does function very reliably. Not only that, but it's very accurate. If you're interested in this particular model, or any other SIG pistol, we suggest you write to SIGARMS Inc., Dept. ASG, 8330 Old Courthouse Road, Suite 885H, Tysons Corner, VA 22180 (phone 703-893-1940), asking for their latest brochure. •



Here are the major components upon field stripping, an operation that takes maybe 15 seconds, without tools: the slide, barrel, recoil spring assembly, and frame assembly.



The low weight factor, reduced by its light-alloy frame, makes the SIG P 220 a pleasant weapon to carry. The locking action, however, is steel to steel.

Self Rescue:

Auto Survival Kit

There are ways past most common automotive emergencies, provided you have the foresight to lay in a supply of tools and spares . . .

By Ralph Zumbro



ABOVE—Digging tools, first aid kit, jack, radio and social adjustment tool. (When a woman's vehicle breaks down, you never know just who will come along to "help.")

LEFT—This is an average rural vehicle tool and spares kit. The manual is as important as any other tool. The jumper cables are homemade out of double ought welding cable for maximum conductivity.

sophisticated than the decades-old iron that we herded across the continent in the 1960s, they are far from perfect. Fan belts still snap, tires still get slashed by busted Coke bottles, radiators leak and hoses rot. Triple A and Amoco are good, but they can't be expected to drop out of the sky in a helicopter when you blow a U-joint in Death Valley.

There are ways past most common automotive emergencies, provided you've had the foresight to lay in a supply of tools and spares. The following items won't allow a total rebuild, but they will go a long way toward allowing you to survive to tell the tale. (By the way, we fixed that U-joint with four strips of leather belt, lubricated with engine oil.)

Your car's personal survival kit breaks down into five general categories: (1) Long range supplies; (2) Specific spares; (3) Emergency fix supplies; (4) Tool kit; (5)

Pioneer tools. This may sound like an extensive list, but it is neither bulky nor expensive. In fact, you've probably got a lot of junk lying around that should be boxed up in your trunk. We'll take those five categories one by one, and learn some tricks along the way.

Long Range Running Supplies—This can be looked at from two angles—what you keep in the trunk while running around home, and trip supplies. Rarely does the casual motorist find himself farther than 50 miles from a gas pump, so local safety usually consists of a one- or two-and-one-half gallon can of fuel . . . just in case. A couple gallons of water, carried in old antifreeze jugs, takes care of the radiator and windshield washer tank. One can of oil, brake fluid, power steering juice and trannie fluid completes the list for weekend top-offs.

For longer trips or unplanned emergencies, a more sophisticated inventory is necessary. If your V-6 delivers 25 miles per gallon, then five gallons will get you an extra 125 miles. I've found that a pair of 2½-gallon cans stow more easily than larger containers. Since the quality and purity of fuel in out-of-the-way places are suspect, install a filter and keep a few cans of Drigas on hand to absorb water.

One complete change of oil and the filter should go into your trip box, in case your lube schedule catches you in the Big Bend area of Texas. Have the transmission filter changed before you go, or carry the spare with its gasket and the extra fluid. Just for the sake of safety, you ought to carry one of those midget grease guns, a can of bearing grease and a tube of differential grease. If you do much fording, or have to run flooded streets, your running gear and suspension will need to be relubed.

Specific Spares—We live in the age of electronic marvels, including super hot ignitions that will start every time in sub-zero weather. Once those magic boxes croak, however, there's no possibility of internal repairs, so you have to carry spare parts. Let's take a walk into your local discount store, and see how much it will cost to bring new life into your deceased electronics . . . remember, these prices are average.



WETHER you're on an automotive vacation or an emergency speed run away from a human- or weather-caused catastrophe, you and your family are utterly dependent on your chariot's reliability. While modern cars are more



The job here is replacing a pair of balljoints and brake shoes—out in the hills.

A rotor and cap would cost about \$4.50; ignition module \$14.50; coil \$12.00; coil resistor \$2.00; voltage regulator \$7.00; spark plugs \$9.50 (V8); plugwire set \$6.00; starter relay \$6.00; starter solenoid \$8.50; and, so far, we're only up to sixty-four bucks. So let's throw in a fuel filter for \$1.75, and a spare air filter for five dollars. None of this is expensive or too large to carry; and we can still afford a few more spares.

You should have at least one headlight, and a full set of smaller bulbs. In addition, most vehicles have several small relays, switches and fuses that usually blow on the most inconvenient occasions. And don't forget spare dash lights. Even if you have to delegate that miserable task to a teenager, the underdash repairs have to be done.

Belts are another sensitive area, and for these you can use a priority list. You must be able to produce electricity and pump water for the engine to run. The fan belt and alternator belt, then, are on top of the list. Next in importance come the power steering and air conditioner belts. Two things need to be mentioned about these items since the engine will run without them. First, you can get air conditioner charge cans with red dye in them that will allow you to spot leaks which are normally in connections and can be tightened. Second, the power steering pump can cost you as much as one gallon of fuel per 100 miles, and the vehicle can be steered without it. If you find yourself 100 miles from a gas pump, with only 80 miles of fuel,

removing that belt will get you home—with a little strain on your shoulders.

Hoses are another sore spot because many vehicles have liquid conduits that are unique to that installation. You can get corrugated universal lengths for those, or carry the factory part (usually it's the lower radiator hose). A friend of mine, caught away from any hope of parts supply, simply duplicated the trick curves with plumbing pipe from a junk pile, and connected his rig with parts of the original hose. The heater hoses are easy; just carry a few feet of standard hose coiled in the generic box.

Clamps are another story. The assembly line spring steel clamps that are installed at the factory are rarely reusable, and sometimes I've had to resort to bailing wire and coat hanger wire. It's best, though, to arbitrarily replace all factory clamps with stainless steel worm drive clamps.

Tire Damage—While you might think that in these days of tubeless tires the home emergency fix is a thing of the past, there are quite a few tricks left in the bag. Most tire damage results from punctures, and many excellent plugging kits are on the market. For more serious repairs, you're going to have to get creative. Take along an old-fashioned bicycle repair kit with sheet rubber patches, and a set of tire tubes.

There are two ways to break open a tubeless tire; first, of course, is to use a tire iron and a hammer. The second is to



This motor home is 12 years and 180,000 miles old, and it's parked 75 miles from the nearest garage—in the Everglades.

merely roll the car's front wheel over the edge of the flat, after laying it on the ground in front of the car. Once the rim is broken free, (only one side need be popped), you can remove the nail, patch the hole and, if needed, insert the tube.

You also should pick up an extra set of valves, and a valve repair kit. And last, but not least, is the "Fix a Flat" in a can. This little jewel will do just what is advertised—inflate and seal a small puncture. It will get you home, but it's *not* a permanent repair.

Emergency Fix Supplies—This category includes the tool-in-a-can group, and the generic parts collection. Many off-road drivers use the term "bolt box" to refer to a collection of miscellaneous screws, nuts, bolts, wire, etcetera. Here is where you get a chance to clean out the leavings of the last few shade tree repairs, and start organizing your supplies.

You'll need electrical tape and duct tape. Do *not* buy the cheap PVC plastic duct tape, as it is useless in cold weather. Quality brands have fibers which give

Auto Survival Kit

them strength. This tape can be used to seal air tubes, cracked windows and, backed up with wire, repair heater hoses and radiator hoses.

Several types of wire are required. Light and heavy iron bailing or picture wire for mechanical repairs can be purchased at most hardware stores. A roll of electric fence wire from a farm supply store will go a long way. Electrical fixes will need what is called primary wire, which is sold in small rolls at many auto supply stores. Lighter gauge can be bought from Radio Shack, labeled as speaker wire. Also, you should make up a few sets of "mini-jumpers," lengths of wire with clamps on each end, for quick fixes.

Small sections of sheet metal, with screws to match, will allow oil and fuel tank repairs. Sealing patches like this require that you stock sheet gasket material and flat sheet rubber and/or plastic. The holes for the screws can be made with a hammer and a punch, although, in an emergency, I've used a Phillips screwdriver, a rock, and screws out of the dash molding.

Another category of primary importance is assorted bits of tubing, both metal and rubber, and miscellaneous sizes of hose clamps to go along with them. To show what can be accomplished with these generic parts, here is what happened to one of my aunts, on a lonely road in central Canada, late one fall day.

Returning to an isolated fishing camp from the nearest town, 100 miles away, she and her three daughters were suddenly shocked into silence when their engine abruptly coughed and died. They coasted to a stop, and there, on the road behind them, rested the fuel tank of their ancient station wagon. After some discussion, they let the vehicle coast back down over the tank, and then blocked the wheels with rocks.

All four of them crowded underneath and levered the tank into place, supporting it with more rocks. Then, after probing around in the bolt box, they wired the tank straps back in place. The fuel line had been snapped in two, but they scavenged a piece of heater hose that fit over it, and sealed the fix with tape and wire which restored the fuel supply.

More and more of our "tools" these days, come in assorted cans, and many of them actually work quite well. I've already mentioned the flat tire repair can, but here are a few others.

Carburetor cleaners, such as Gumout, will remove interior carbon and free up sticky linkages. Those control links are designed to operate *dry*, and accumulated grease causes sluggish movement. Fuel tank additives dissolve built-up varnish and crud, but these will wind up in the fuel filter and carb. It's a good practice to give

Out here in the woods, you have to be independent.



the tank a semi-annual douche, drive a few hundred miles, and then change the fuel filter.

Spray penetrating oils, like WD-40, are a godsend to anyone who has to deal with old, rusted bolts, provided you apply them, and then wait for the oil to penetrate. The old mechanic's standby, Marvel Mystery Oil, sometimes works when all else fails. I once had to resort to it to free up an engine that had been sitting idle in a saltwater environment for seven years.

DriGas, and other water absorbers, are simply methyl alcohol, and the periodic addition of a can will eliminate a multitude of winter problems. Starting fluid, which is either in a spray can, will start most engines, unless they are drastically flooded. After you have it running, though, check around and find the real problem, because with modern ignition, an engine should start quickly—even at 20 below zero.

Belt dressing is another spray product which can lengthen belt life and restore traction to a belt that has been stretched to the limits of adjustment. Cooling system sealers come in many brands, and most work quite well. One caution, however: Don't use metallic copper sealants on an aluminum core radiator, as the copper can attack the aluminum. Those sealers will handle only pinholes, but a small leak is big trouble in the middle of the Mojave Desert.

Liquid and paste metal repairers, under such names as J.B. Weld and Marine Tex, actually allow you to do such things as repair carburetor and fuel pump bodies. Gaskets can be formed for oddball applications from products like Permatex and Formagasket; and a good grade of contact or rubber cement will always find a use.

Last, there are various silicone-based sprays that'll waterproof your ignition and starting wires. Using this type spray should enable you to run a full-sized sedan through a foot of water without drowning out, or play a water hose on the engine, and then start it with no delays.

As far as oil additives are concerned, I've used them all, and have come to one conclusion. Change the oil and filter regularly, don't abuse the iron . . . and you'll never need them. When the engine begins to wear to the point where oil consumption

becomes excessive, it's time for wrenches, not chemical "miracles."

Tool Kit—For serious repairs, you will need real tools, not spray cans, so a few comments are in order. Most manufacturers are switching to newer forms of screw-head, so you'll need a wider assortment of screwdrivers than ever before. Many drivers now carry a magnetic screwdriver with changeable tips, or an adapter which allows a ratchet wrench to drive screws.

For proprietary tools, such as Channellock or Visegrip, get the brand name, not the imitation. Sears, for example, whose Craftsman line is generally excellent, makes an abominable clamping plier. For your wrench set, you're better off buying domestic brand names, instead of oriental imports. For a starter wrench collection, a set of combination wrenches with both box and open ends will be your best bet. Sizes ought to run from 1/4 inch to 1 inch, or from 3mm to 15mm if you're operating foreign iron.

Eventually, you'll need a socket, because many bolts can't be reached with any other tool. A 3/8 drive with socket sizes up to 3/4, including a pair of extension shafts, will take care of most back country repairs. If you run into anything these tools can't handle, you need a tow truck, not more tools.

For test instruments, if you care to get a little fancier in your troubleshooting, \$20 will set you up. Radio Shack makes a nice multi-tester for \$10.98, and Sears puts out a starter/alternator tester for \$8.50. These two will handle anything outside the computer.

The last group of emergency tools is what the Army calls "pioneer tools," used for moving dirt and cutting wood. The photograph shows the assortment that normally ride in the box of most cross-country pickups, alongside the tool kit and gas can.

The folding shovel and pick are pure G.I. (available in discount or surplus stores), and they'll do much more than you'd expect. I've seen a pair of infantrymen dig a hole with those shovels big enough for a Volkswagen in about four hours! Granted, they were being shot at, but a little incentive always helps.

Most of the tools shown are self-explanatory, but the CB walkie-talkie deserves comment. First, keep the batteries charged. Second, it's a line-of-sight radio, and a short walk to a hilltop or climbing a tree will increase your range considerably.

Self rescue is an American tradition. This is a BIG country, and if you're going to do much serious auto travel, whether for business, pleasure or emergency, some forethought will go a long way towards converting a potential disaster to a campfire tale. ●

Mountain Medical Kit

(Continued from page 7)

used to drill a finger or toe nail to remove pressure and pain due to blood under the nail. (The sharp edge of the 18 gauge hypo needle will often do the same thing.)

Instant Ice Pack—one small and one medium—Used for treatment of burns, sprains, fractures, contusions, scorpion and insect bites. Carry the ice pack in a protected case such as its cardboard box to prevent premature activation.

Snake Bite Kit—1 suction kit for poisonous snake bite. Recommended snake bite treatment methodology is continuously changing and should be reviewed yearly.

Dental Kit—1 small compact for emergency fillings, toothaches and broken teeth. EDK puts out a small compact dental kit that will handle a short term problem. Dent Aid and EDK both market a larger kit that will handle temporary repairs of any kind. But both of these are too large and bulky to carry on the trail.

Flashlight—1. Any small light compact flashlight will work. A unit with a clip and a flex tube head or a head light attachment is handy when working on a victim with both hands. The plastic model flex tubes are the lightest but tend to fall apart. The brass model flex tube is heavier but holds up well. Store the two AA alkaline batteries outside the flashlight until needed to maintain battery life. Carry a spare set of batteries in your shirt pocket when you enter the field to prevent the cold from taking their life.

MEDICATIONS

Ipecac Syrup—one fluid ounce. Used to induce vomiting in case of poisoning. **Dose:** one tablespoon for persons over one year of age. Drink two full 8-oz. glasses of water immediately after taking.

CONTRAINDICATIONS: Prostrate problems, ulcerative Strychnine, alkalies, acids, or petroleum distillates. Do not give to a patient that is unconscious or may become unconscious before 15 to 20 minutes. Do not give to pregnant women or lactating mothers.

WARNING: If vomiting does not occur in 30 minutes the subject must be made to vomit by gag reflex or other method. Ipecac Syrup will cause a cardiotoxic effect if absorbed in the system.

Phenergan—30 tablets, 50 mg.—Carried for control of nausea although this medicine has other actions that may be taken advantage of. **NAUSEA:** children 1/2 tablet every four to six ours. Adults 1/2 tablet every four to six hours or one tablet every eight hours. **ALLERGY:** Hayfever, minor insect bite reactions 1/2 tablet every six hours or before bedtime. May take 1/4 tablet at meal times instead. **SEDATION:** Children 1/4 to 1/2 tablet at bedtime. Adults 1/2 to one tablet at bedtime. **PAIN MEDICATION:** May be augmented allowing less narcotic to be used by taking 1/2 to one tablet every six hours with one or two Tylenol #3 tablets every four hours.

WARNING: Should not be taken with other central nervous system depressants, including alcohol.

ADVERSE REACTIONS: Dryness of mouth, blurring of vision, dizziness, drowsiness.

Tylenol #3—12 tablets—for control of minor to moderate pain. **Dose:** one to two tablets every four hours with food. Dosage may need to be adjusted to the severity of the pain and the response of the patient.

CONTRAINDICATIONS: If allergic to tylenol or codeine do not take.

WARNING: May be habit forming. Should not be taken with other central nervous system depressants, including alcohol. Do not give to children under twelve years of age. Children should have Tylenol with Codiene elixir. If such are in the group this should be carried and dosed: 3 to 6 years, one teaspoon 3 to 4 times per day. Seven to 12 years, 2 teaspoons 3 to 4 times per day. Robitussin AC is an acceptable substitute for Tylenol with Codiene elixer and dosed the same.

NOTE: DO NOT USE Robitussin PE, CF, DM, or DAC.

PRECAUTIONS: Individuals with head injury or acute abdominal pain should not be given this medication if they are to be diagnosed within the next two hours. Caution should be used in giving this drug to the elderly, debilitated and the dehydrated.

ADVERSE REACTIONS: Nausea, vomiting and constipation.

Donnatal—30 tablets—abdominal cramps and ulcer pain.

Dose: the dosage should be adjusted to treat the individual with the least adverse effects. Adults, one or two tablets three or four times per day according to condition.

CONTRAINDICATIONS: Prostate problems, ulcerative

colitis, hiatal hernia, Glaucoma. Do not take if allergic to Phenobarbital.

WARNING: May be habit forming. Use with caution in high temperature environment. May cause heat stroke or fever. Use with caution with heart problems, liver problems or someone taking anticoagulants. Should not be given to pregnant or nursing women.

ADVERSE REACTIONS: Blurred vision, drowsiness, urinary retention, constipation. Elderly may react with excitement, agitation or drowsiness with a small dose.

Tylenol—100 extra strength tablets 500mg each for mild pain and fever. **Dose:** two tablets 3 or 4 times daily. **DO NOT EXCEED** eight tablets in a 24 hour period.

CONTRAINDICATIONS: If allergic to tylenol do not take.

Bufferin—100 tablets for mild pain and fever. **Dose:** adult 10 grains every 6 hours as needed. Aspirin is one of the mainstay drugs of modern medicine. (Bufferin may be a bit more gentle on the stomach.) It is one of the best anti-inflammatory drugs available and as such is very effective for a wide variety of pain syndromes, headache, fever, etc. It should not be used in children under 15 with a flu illness, but is otherwise safe and effective. Always take aspirin with food in the stomach.

CONTRAINDICATIONS: If allergic to aspirin do not take. Avoid using in patients taking anti-coagulants and in persons with active ulcer disease.

Lomotil—20 tablets for management of diarrhea. **Dose:** two tablets four times per day. Do not take once the diarrhea has stopped. Often one dose is sufficient. Lomotil is an extremely effective drug. It is fast at paralyzing the bowel. In many diarrhea illnesses its use treats the symptoms but not the disease and may in fact lead to prolonged illness. It should be used infrequently and then sparingly. Most diarrhea is best treated with diet —gatoraid for 6-8 hours, then light low protein low fat foods: bananas, rice, toast, tea applesauce for 12-24 hours.

CONTRAINDICATIONS: Should not be given to children under 12 years of age in tablet form. If allergic to diphenoxylate hydrochloride or atropine sulfate do not take.

WARNING: If dehydrated do not use Lomotil until the problem is cleared up. Lomotil may aggravate the problem. Individuals with ulcerative colitis should not be given Lomotil unless qualified medical personal are available to monitor the patient. Individuals with liver disease should not take Lomotil. Do not use alcohol, barbiturates or tranquilizers with this medication. Pregnant or lactating women should not take this drug.

ADVERSE REACTIONS: Dry mouth, rapid heart beat, urinary retention, nausea, vomiting, headache.

Antibiotic—we use Keflex and Tetracycline—check with your doctor as to their recommendations. Keflex is used for minor wound soft tissue infections.

Benadryl—20, 25 capsules for treatment of itching related to Poison Ivy and insect bites. **Dose:** one to two capsules three or four times per day depending on the response of the patient.

CONTRAINDICATIONS: Nursing mothers and newborn infants should not use this drug. Individuals with lower tract respiratory symptoms including asthma should not use Benadryl.

WARNING: Not recommended for pregnant women. Benadryl has additive effects to central nervous system depressants including alcohol and should not be used with them. It may decrease the patient's alertness and motor skills.

ADVERSE REACTIONS: Sedation, sleepiness, dizziness, disturbed coordination. Nausea, vomiting, diarrhea or constipation. Dry mouth and urinary dysfunction are not uncommon.

Epinephrine—"Anakit" by Hollister-Stier for severe acute allergic reaction. (Bee stings, etc.) **Dose:** follow directions with kit. **General:** Epinephrine must be protected from light. It is impossible to keep it in a cool environment as called for while carrying in a First Aid Kit. If Epinephrine becomes brown in color or contains a precipitate it should not be used.

WARNING: Use caution giving an injection to elderly people or those with heart disease, high blood pressure, diabetes, hyperthyroidism and pregnancy. However, in a life or death situation you must often choose between the lesser of two evils.

ADVERSE REACTIONS: Anxiety, headache, fear and palpitations.

Actifed—30 tablets for relief of "hay fever" symptoms or extreme congestion due to a cold. **Dose:** Twele years and older, one tablet every four to six hours. Six to twelve years, 1/2 tablet every four to six hours. **DO NOT**

EXCEED four doses in a 24 hour period.

CONTRAINDICATIONS: Persons with lower respiratory disease including asthma should take Actifed with caution.

WARNING: Do not give to children under six years of age. Use caution in patients with glaucoma, high blood pressure, heart disease, diabetes, thyroid disease, or difficulty with urination. Do not take if pregnant or nursing. This medication should be taken with caution when using antihypertensive or antidepressant drugs.

ADVERSE REACTIONS: Dryness of mucus membranes, sedation, and dizziness. These reactions are more common in individuals over 60 years of age.

Sun Screen—one protection factor #16 for prevention of sunburn and protection of sensitive areas. **Dose:** use as directed on container.

Vaseline—one tube for lubrication of rectal thermometer and chapped skin.

Antibiotic Ointment—one tube for treatment of minor open wound injuries to prevent infection. The tube should be placed in a plastic sandwich lock bag to prevent leakage and damage to kit contents.

Hydrocortisone—one tube 1 percent to relieve minor itching from insect bites, skin irritations, and rashes. **Dose:** use as directed on the container. Should be placed in plastic bag as above.

WARNING: If pregnant do not use for a prolonged time or on a large area.

Benzoin—one ounce for increasing the sticking ability of steri strips. **Dose:** apply with Q-tip on both sides of the laceration but do not place in the wound. Allow to dry and place the steri strips over the Benzoin.

Visine—one 1/2-ounce—to treat eye irritations due to allergy or dust from strong winds.

Neosporin Ophthalmic Ointment—one 1/8-ounce tube—short term treatment of eye infections. **Dose:** apply the ointment every three to four hours depending on the severity of the infection.

WARNING: avoid prolonged use. Stop treatment as soon as infection appears gone. If infection does not clear up medical aid must be sought.

ADVERSE REACTIONS: Allergic reactions to neomycin are common.

Salt—1/2 cup—treatment of local infections of the hands and feet. **Dose:** one tablespoon of salt per quart of warm water. Soak the affected area as often as needed to remove the infection.

Salt Tablets—50 tablets—to prevent heat disease. Each tablet should contain Sodium chloride, Potassium chloride, Calcium carbonate and Dextrose. **Dose:** one tablet with at least eight ounces of water as needed for conditions. Not over ten tablets per day. Gatorade or ERG should be carried if individuals unable to take tablets (children) are in the group. It comes in individual 8 oz., 1 quart, 2 quart and 8 quart mix quantities. Use as directed on container. **WARNING:** do not take if pregnant, nursing, under two years of age or without adequate water.

Anti Acid—30 tablets, (Rolaids, Tums, Gaviscon, Alka-Seltzer—your preference)—heartburn, upset stomach. Tums work well as an antacid and are also a good source of calcium for leg cramps, etc. **Dose:** follow directions on container.

WARNING: follow warnings on container.

Adapt the contents of this kit to the needs of the group or your family. The kit is more usable if compartmentalized with more commonly used items (bandaids, tweezers, tylenol, etc.) together. Items of a similar nature (pain meds, Benzoin and steri strips, dressings and bandages, etc.) can be placed together in zip lock bags so they are easily found. Carry it in a comfortable container that will always be with you on your outings.

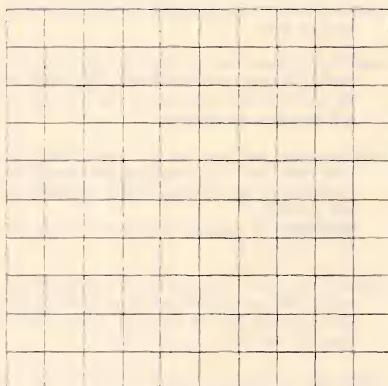
A Mountain Medical Kit is second only to the knowledge of how to use it in a medical emergency far from medical assistance.

Double Transposition Cypher:

Concealed Communications For Survivalists

For maximum security, change code words often . . .

By Robert C. Smith



← Alphanumeric
← Key Word

Figure 1: Cypher Grid

2	7	1	3	6	9	8	5	10	4
B	L	A	C	K	S	M	I	T	H

← Alphanumeric
← Key Word

Figure 2: Setting Up

2	7	1	3	6	9	8	5	10	4
B	L	A	C	K	S	M	I	T	H
N	E	E	D	A	M	M	O	S	O
O	N	E	S	T	X	X	S	E	N
D	F	I	R	S	T	A	I	D	X

← Alphanumeric
← Key Word

Figure 3: Message Form

2	7	1	3	6	9	8	5	10	4
B	L	A	C	K	S	M	I	T	H
N	E	E	D	A	M	M	O	S	O
O	N	E	S	T	X	X	S	E	N
D	F	I	R	S	T	A	I	D	X

← Alphanumeric
← Key Word

Figure 4: Cypher Groups

ONE PROBLEM facing survivalists is a method of keeping communications secure between members of a survival group. Under normal circumstances, there should be little or no reason to use either codes or cyphers. There is no need to use either complicated code books or cyphers; however, in a tactical situation, you may want to conceal your messages. One of the simpler and more secure methods is to use what's known in the trade as a double transposition cypher. Let's look at the basics of this form of concealed communications.

Each team or group should have a specific pair of 10-letter words or phrases

assigned to them. These are your key words. You can have a great deal of fun in selecting the words, and make it more interesting yet if you're multilingual. Let's take some examples. The word **BLACKSMITH** can be used "as is;" it's exactly 10 letters long and has none of the 10 letters repeat. The phrase **FOUR SCORE AND** could be used as well; all you would have to do is suppress duplicate letters. Thus, instead of reading **FOUR SCORE AND**, the ten letters would read either **FOURSCREAN** or **FURSCOREAN**. Either rendering is acceptable, just don't have any of the letters repeat in the key word. You can also use a foreign language word

or phrase in the same fashion: **FLUGABWEHR**, **LEGION ENTRENGER**, or whatever strikes your fancy. The words or phrases should be selected at random, since an obvious aid in penetrating any code is via the back door—using a word or phrase or slogan that is intimately associated with you or your operation. Whatever words or phrases you choose, you should commit them to memory rather than write them down. Obvious reason: if the key words are written down, they can be used to penetrate your "concealed communications." If you have several groups you communicate with, keep your key word list in cypher text as well so you don't

forget who's who.

Once you've chosen your key words, you should construct a grid for setting up the cypher. It should be 10 blocks wide and, after the first two key blocks, be set up with multiples of five blocks in length. The grid should look like Figure 1 when you're finished. The first word you've chosen should go into the blocks labeled "key word," one letter per block, no spaces. You should then number the letters as they would appear in alphabetical order; thus, in the **BLACKSMITH** example, "A" = 1, "B" = 2, and "T" = 10. At this point, the grid should look like Figure 2. Fill your message—it's called a "plain text" message—into the remaining blocks, one letter at a time, no spaces or punctuation. The only time you indicate the end of a sentence or phrase is by using a double "X"-XX—one "X" per block. Also, when you complete the message, any empty blocks in the grid should be filled with more Xs. The grid should now look like Figure 3. Now take the letters, in numerical order, that appear under the letters of the key word. Divide them up into five-letter groups, writing the groups down in order from left to right, as shown in Figure 4. Once completed, this is known as the first transposition. When you're finished, you'll have a moderately difficult-to-penetrate cypher which can, however, be cracked with some effort. Thus, we go on to the second transposition. Set up the same grid you did previously, using the second key word. Then write the five-letter cypher groups into the grid just like you wrote the plain-text message. Once you're done, you repeat the process of extracting five-letter cypher groups just as you did for the first transposition. Now you've produced a double transposition cypher message.

Take the final cypher groups and write them down on a separate piece of paper and destroy (by burning the work sheet and crumbling the ash) the original. I suggest that if you're communicating with a number of groups, that you should use a distinctive symbol for each group. This will indicate to someone monitoring your messages what group originated the message, but not open a back door into the cypher by giving a greeting or salutation.

Decrypting the message is merely the reverse of the encrypting process.

For maximum security, change the code words at a minimum of once a month, perhaps faster, as well as the identifying symbol. The key word list should be hand carried to each group (in cypher, of course) to prevent compromise. In any case, the messages, when decrypted, should be destroyed and any record of the message should be paraphrased so no one can penetrate the original key word list. Never keep original messages, no matter how tempted you may be.

I'll answer questions (which include a self-addressed, stamped envelope) at Post Office Box 1265, Merchantville, NJ 08109-0265. •

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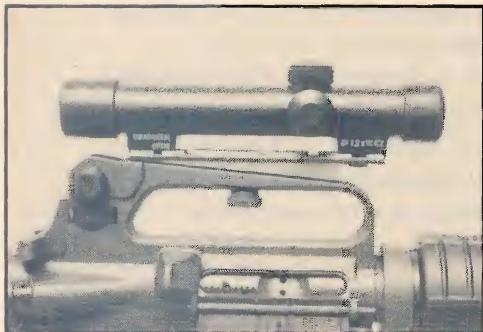
4138

Cobra, AL:

Swarovski Scopes

New rifle and SMG scopes designed for law enforcement, hunting . . .

Staff Report



ABOVE—Pictured here are the ZFM 6 X 42 scope on an H&K 91 and the 1.5 X 14 Cobra Scope on a Colt AR-15 A2 HBAR Spoter.

LEFT—The rugged Cobra Scope, shown here with an A.R.M.S. M16 mount, helps the user engage the target for accurate semiauto or full-auto fire.

according to company literature.

The Cobra is compact and lightweight and permits the user to see both target and reticle at the same time. Annoying lateral light is eliminated and high magnification makes more target details visible. The Cobra Scope features a circle dot reticle, quick setting bullet drop compensator, range finder, visual adjustments, click setting with cover, adjustable reticle and rubber rings protecting both ocular and objective lenses. It is parallax free for 300 meters. These scopes are waterproof, shockproof, corrosion-resistant and easy to use and adjust. They are designed to withstand the rigors of firing recoil (in semi-

SWAROVSKI OPTIK, a division of Swarovski America Limited, offers a large assortment of rifle and SMG scopes for hunting and law enforcement uses.

A part of Swarovski Optik KG which for the past 30 years has been a world leader in optics technology and one of Austria's top domestic producers of precision optical instruments, Swarovski Optik now has two new types of scopes for hunting and law enforcement applications.

The new 1.5 X 14 power Cobra Scope is designed for sniper rifles, semiautomatic and full-automatic assault weapons. Swarovski has a complete line of new fixed and variable-powered AL (American Lightweight) rifle scopes designed especially for the American hunter.

Intended to improve combat efficiency, the Cobra Scope has numerous advantages over conventional gun sights and can improve accuracy up to 80 percent,

auto and full-auto) and provide a sharp, high-contrast, color-true image even in adverse light conditions such as dawn or twilight. Available in two variants, the Cobra Scope can be used with any weapons using standard NATO mounting and 1-inch diameter tube mount.

Swarovski Cobras can provide all types of rifles and SMGs with an optically aided sight requiring no batteries or other aids that can fail at a critical moment.

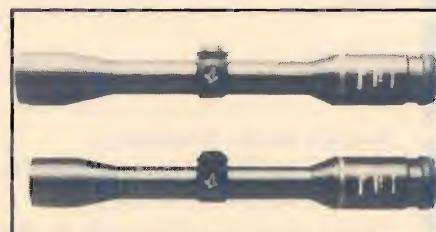
Swarovski's new 4 X 32 and 6 X 36 fixed-power, and 3-9 X 36 variable-powered and 2-6 X 32 variable-power and 10 X 40 fixed-power and fixed-power with parallax adjustment AL Scopes are now available for inspection.

These scopes designed for hunters also provide sharp, high-contrast, color-true images even in adverse light. Constructed from a single 1-inch tube of aluminum alloy, they are light yet durable under the heaviest recoil. They have a low profile and mount easily on a wide variety of bases and mounts.

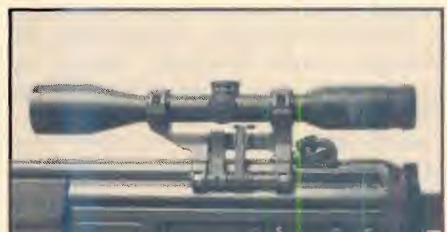
The AL scopes use a standard multiplex reticle and feature mechanical adjustment of $\frac{1}{4}$ -inch per click at 100 yards. The parallax is also set at 100 yards. The eyepieces of the AL scopes have an exclusive built-in recoil system for maximum shooter protection and comfortable $3\frac{1}{4}$ -inch eye relief. They are also waterproof, shock-resistant, corrosion-resistant and fogproof. They have a smooth satin finish.

Also pictured in this article is the Swarovski ZFM 6 X 42 lightweight medium-power scope with high twilight visibility useful for many law enforcement situations. These scopes give hard-hitting performance in sniper and counter-sniper missions. Dull finish reduces light reflection and rubber ring in ocular protects against eye injuries.

For more information contact Swarovski Optik, Dept. ASG, One Kennedy Drive, Cranston, RI 02920; phone (401) 463-6400. ●



These new 4 X 32 and 6 X 36 AL rifle scopes provide detailed, high-contrast images and superior light transmission.



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Survivalist Directory

(Continued from page 43)

ASG 0214

Whitney Point, New York, survivalist group seeks contact with born-again Christians who see George Washington's vision beginning to take shape. Plans are being made to defend our faith, families, fellowships, and country, if you are like minded please contact us. We are not a terrorist organization or involved with any far-left or right wings, just Christ-centered and survivalist minded.

ASG 0215

Southeast, South Dakota, S.F. Commo, weapons expert, guerrilla warfare expert. Experience in C.A. desires contact with groups or individuals, local, national or Canadian.

ASG 0216

Montreal, Canada, consultation and instruction available. We are looking for serious individuals needing help on preparing or who are interested in the study of survivalism. We would also like to hear from survivalists world wide.

ASG 0217

Granite Shoals, Texas, Texas Survival Net is accepting individuals and/or groups. People in surrounding states welcome to expand net. Dedicated people only. This is the elite of survival groups!

ASG 0218

Birmingham, Alabama, recently moved from North Central U.S. to slightly north of Birmingham. Low profile survivalist has own equipment. Would feel like home again.

ASG 0219

Jacksonville, Florida, looking for individual in north Florida area to establish communications link to trade info and skills. Also interested in joining or starting serious survival group with true blue Americans of all ages. America is number 1.

ASG 0220

Belleview, Washington, family oriented mutual assistance group forming in Seattle/northwest Washington area. Emphasis on research, planning and disaster coordination. Interested in security and peace of mind? Send a brief resume with letter. Moderate and mainstream.

ASG 0221

Anchorage-Mat Valley, Alaska, couple would like to contact established group in area. Excellent background much to offer a serious group. No bigots, fanatics or Rambo's, please.

ASG 0222

Tumbler Ridge, B.C., Canada, highly trained and motivated survivalist family wishes contact with any and all like minded individuals or groups Northwestern U.S.A. and Canada. No bible thumpers. Land available. Time is short.

ASG 0223

Kentwood, Louisiana, 17-year-old survivalist looking for others in the Louisiana area to start group or trade information. Serious inquiries only.

ASG 0224

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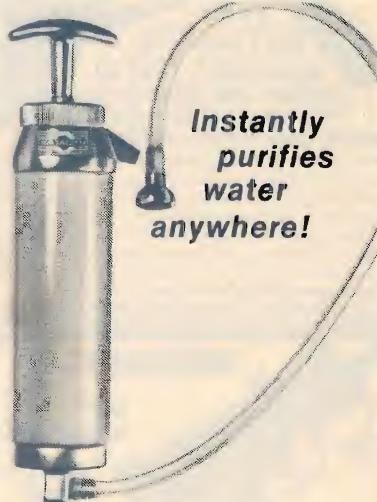
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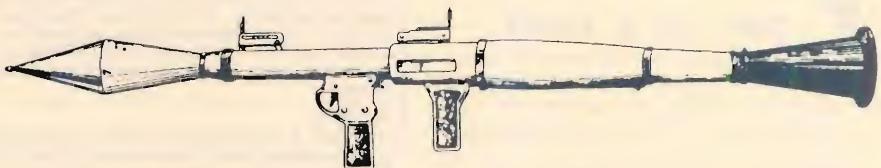
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Technology of Terrorism

(Continued from page 27)



devices, and high-tech surveillance equipment can make the planning stages of a well-funded terrorist operation all the more successful.

Armaments—Since WW2 the trend in firearms design has been towards reduced size, lighter weight, and increased ammunition capacity. While these armaments are designed with the soldier in mind, they also provide the terrorist with a formidable arsenal.

The small arms available before WW2 were simply too awkward to be used in modern terrorist operations. For urban attacks, concealment is a primary consideration. Even the AK-47 or M16 assault rifles are too large and heavy for urban targets. New alloys and the development of high strength plastics have spawned a modern generation of small, lightweight weapons like the Skorpion VZ 61, H&K MP 5, Beretta 12, MAC 10, Glock 17, and others that can provide a single terrorist with an incredible advantage in firepower over security personnel, police, and hostages alike.

The development of hand-held rocket launchers and anti-tank weapons have also helped stock the terrorist arsenal. LAW rockets, SAM7s, RPG7s, and Armbrust rocket launchers are very light in comparison with the old fashioned Bazooka. The Armbrust, for instance, is quiet, disposable, and has no backblast to give away its position. Such weapons could be fired at government buildings, stadiums, or jet aircraft with devastating results.

Plastique and other types of moldable explosives are also valuable to the terrorist. Until WW2 the dominant military explosive was TNT. But the development of more versatile compounds like RDX and PETN along with today's more sophisticated detonating devices opened the door to more compact, incredibly destructive bombs that can be set off by time delay, pressure, motion, light, sound, altitude, or remote control. When high-quality commercial explosives aren't available, terrorists can still construct homemade bombs with black powder, ammonium nitrate fertilizers, and hundreds of other common materials.

Along with explosives, the hand grenade



has also become a favored terrorist armament. One terrorist wielding an impact-detonated grenade can hold an entire airliner hostage for as long as he wants. In addition to grenades, other products of combat technology like body armor, gas masks, silencers, armor-piercing ammo, and exploding ammunition have all proved to be of value to terrorists in their attacks on our society.

As if advances in conventional weaponry weren't enough, there is also the specter of terrorists using chemical, biological, or nuclear weapons against huge civilian targets. So far this has not occurred, although the components needed to construct such weapons are not beyond the reach of determined terrorist groups.

Soft Targets—Advances in technology have also created highly-vulnerable "soft" targets for terrorist sabotage or mass murder. Electrical power stations and grid networks, oil pipelines, hydroelectric dams, natural gas lines, central air conditioning systems, water reservoirs, nuclear power plants, sports stadiums, and

LEFT, LEFT BELOW, BELOW—New, light, powerful arms like the 9mm pistol and shoulder-fired rockets shown here give terrorists greatly increased firepower.



government buildings are all easy prey to terrorist attack. A bomb in the nation's Capitol could wipe out Congress, while just one ounce of anthrax serum in the air system of a domed stadium could kill 80,000 spectators in only two hours. Oil and gas pipelines traverse thousands of miles of open country that can't possibly be secured from attack. Drinking water for millions of people can be made poisonous with just a few gallons of pollutant. A well placed explosive could cause a nuclear plant meltdown. The possibilities are endless.

At the present time, there's just no way for our highly centralized society to insure the security of our utilities or major institutions. A small terrorist faction like the one which attempted to blow up the Fessenheim nuclear reactor in Germany can inconvenience an entire nation and tax governmental control to the maximum with just a few pounds of high explosive. As technological advances push forward and societies become more and more centralized and urban, this threat will continue to grow in severity.

In any attempt to "solve" the problem of international or domestic terrorism, it's clear that the technological issues we've briefly covered have got to be taken into account. So long as there's a will to terrorize—be it political, religious, territorial, economic, or even psychopathic—there will be a technological means available to the determined terrorist bent on inflicting pain and death on the innocent. While technological progress certainly doesn't cause the terrorist impulse, it does provide the opportunities, incentives, and armaments that today's terrorists wield in their misguided war against the civilized world.



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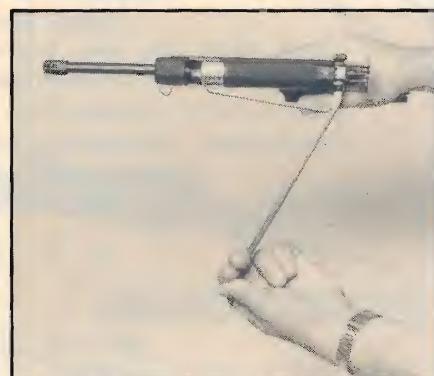
By Bob Clark



ONE OF THE WORLD'S finest air pistols, the Beeman/Feinwerkbau 65 Mk II is an air gun designed for every shooter, not just the match shooters. Modeled after the superb Feinwerkbau 300 air rifles, the Beeman/FWB 65 has the same easy sidelever cocking, straight-line breech block, and ingeniously simple and dependable "ride the rails" recoil elimination system.

The shooter can instantly switch operation of the gun from a recoilless match pistol, with a 17.6-ounce trigger pull, to a recoiling firearm trainer with a standard 39-ounce "firearm" trigger pull (an excellent way to improve your shooting skills while in the home).

The Beeman/FWB, Mark I version, was introduced not long ago as an improvement of the older FWB 65. Improvements included a superior trigger mechanism and two mainsprings for more power. The muzzle velocity was boosted to as much as 525 fps—a distinct advantage, in the field and on the range where there is any air movement, over both the cheap and expensive single-stroke pneumatics whose velocity is often nearer 300 fps. A new, wider (35mm) rear sight also improves performance.



The side lever cocking system of the 65 MK II is easy to work and precise. You can reload and fire in about five seconds.

An American firing a short-barrel version of the 65 Mk I took the gold at the Second World Airgun Championship late in 1981. He vividly demonstrated that control by the shooter is the key factor when using a gun that is so near to perfect. Experimentation quickly showed that the short-barrel version felt and handled better and had reduced shot-time (the time that the pellet remains in the gun after trigger release). Shortening the barrel had no effect on velocity; if anything there would be negligible increase due to

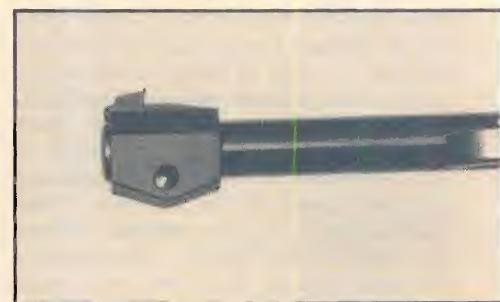
reduced friction. Beeman recently introduced this shortened airgun as the Beeman/FWB Mark II.

The Beeman/FWB 65 Mk II is chambered for .177-caliber pellets, and weighs in at around 2.9 pounds. It's equipped with one of the best sighting systems available, with precision micrometer click windage and elevation knob adjustment, plus a special, patented rear notch which is cam adjustable for width. The foresight uses interchangeable posts of varying widths and special higher posts for use when used as a firearm simulator.

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A new 35mm wide rear sight has proven capable of improving performance.



Even the foresight is interchangeable, offering the shooter the ultimate in sight patterns, accuracy.

Grips can be shaped to fit the individual user's hand.



shooting. Either grip may be rasped and modified to fit your hand. In fact, most shooters will find the grips to be a bit tight overall, and they'll have to be modified to fit the individual shooter. Once shaped to fit your hand, you'll find it's almost like wearing a glove when you grasp the grip. After reshaping, just sand them smooth and use a stock oil for a preservative.

Whereas the Mark I comes with a 7.5-inch long barrel, the Mark II features a 6.1-inch tube of finest blued steel, with 12-groove precision rifling. The pellets Beeman recommends with this particular airgun are: Beeman H&N Speed Match (especially Hi-Speed Ultra Match) indoors; Beeman Silver Jet for best penetration, and Silver Bear for highest velocity and impact.

In our testing, we fabricated a simple pellet trap and after a few shots to acclimate ourselves to the gun, fired numerous one-hole groups from around 25 feet, using Beeman Silver Jet pellets. The Beeman/FWB 65 Mk II is one heck of a gun, and will provide you with years of good shooting with proper maintenance. •

Beeman/Feinwerkbau 65 MK II: Tech Specs

Model .....	.65 Mk II
Caliber .....	.177/4.5mm
Weight	2.6/2.9 lbs.
Length	14.1 inches
Velocity	525 fps
Accuracy .....	.04"- .09"
Cocking Effort	12 lbs.
Stocks	left/right hand
Trigger	4-way adjustable
Manufacturer	Feinwerkbau

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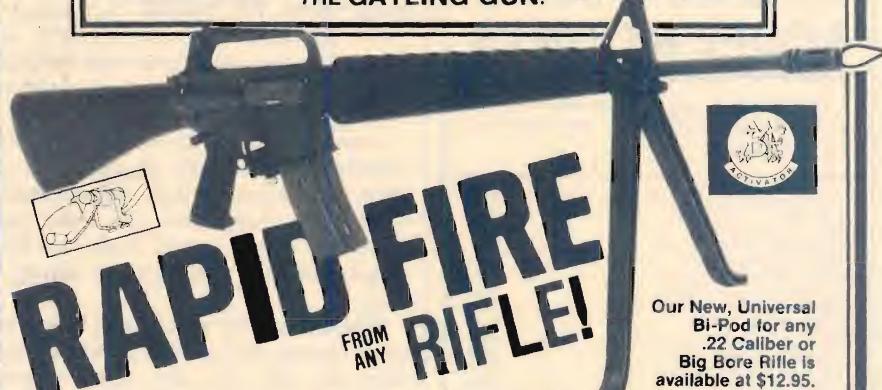
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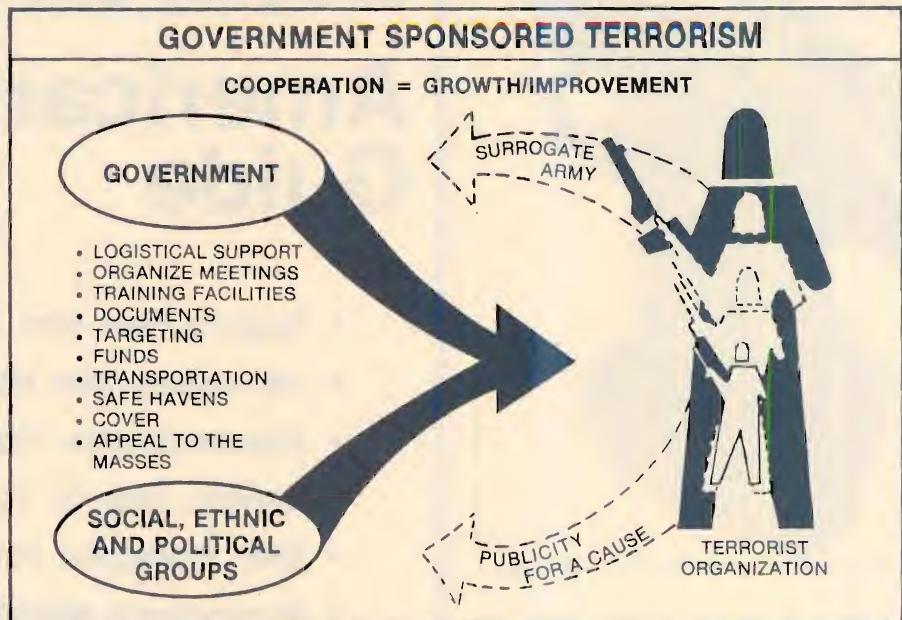
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Crusaders, Criminals, Crazies

(Continued from page 33)



International terrorism is often government sponsored—a surrogate army to achieve the foreign policy objectives of a sovereign state.

eral Field Marshal Cinque," the symbolic leader of the Symbionese Liberation Army which kidnapped Patty Hearst.

Criminals are increasing their use of terrorism to an alarming degree. Some of their terrorist acts, such as kidnapping or extortion, are planned. Others are not, but happen as a result of the rapid response time by law enforcement agencies to an ongoing crime. For example, a number of bank robberies have evolved into unplanned hostage situations when the police arrived in response to an alarm while the robbery was in progress.

Crazies, perhaps, are the most difficult terrorists to deal with because they are often so impulsive and unpredictable. Others are compulsive but plan their actions in minute detail. Some are delusional, believing they are the agents of God.

When a terrorist event occurs, there is a good chance that at the beginning, and even far into the act, those agencies responding will not really know who the terrorists are or what their motivation is. In fact, recent incidents, such as the attempted assassination of the Pope, point out the difficulty in determining linkage and motivation, even after extensive post-incident investigations.

Common Characteristics—Whether they are crusaders, criminals, or crazies, those who practice terrorism share common characteristics. They: Promote fear; Are usually militarily weaker than the opposing security forces; Do not necessarily equate tactical success with mission success, publicity may be the main terrorist objective (terrorists world-wide considered the Munich massacre of Israeli

athletes of 1972 as a success although none of the terrorist demands were met and five out of the eight terrorists were killed); Are highly mobile; Exploit the fact that terrorism is cheap (a few perpetrators with inexpensive small arms can create disruptions far beyond their numbers, affecting entire nations or groups of nations); Usually possess limited resources unless they are state-supported, then they can be considered a surrogate army for a government; Operate most often in a clandestine manner; Believe small groups mean security and efficiency (these groups are organized into 3- to 5-person cells).

The motivations and goals of any terrorist group might be ascertained by knowing if they are international, transnational, or national. An *international* terrorist is one who is controlled by, and whose actions represent, the national interests and objectives of a sovereign state. The sovereign nation provides logistical support, funds, transportation, safe houses, and a host of other services to the group. An example would be the Libyan "hit squads" which have been assassinating anti-Khadafi Libyans overseas.

The *transnational* terrorist operates across national borders and his actions and political aspirations may affect individuals of more than one nationality. The Basque ETA is an example of this type as they operate not only in Spain, but in France as well and have close links with the Irish Republican Army.

National terrorists operate and aspire to power within a single nation. The Black Liberation Army in the United States is an example of such a group.

No matter what category they fall into, terrorist groups plan their actions in order

to reach goals which may be immediate or long range.

IMMEDIATE GOALS: Obtain worldwide, national, or local recognition for the Cause; Cause government reaction, overreaction, and repression leading to public dissention and alienation from the established government; Harass, weaken, or embarrass government, military, or security forces; Show a government's inability to protect its citizens; Obtain money or equipment; Disrupt or destroy a nation's mobility or means of communications; Demonstrate power or threat credibility; Prevent or delay executive decisions or legislation; Cause strikes or work slowdowns; Discourage impending foreign investments or foreign assistance programs, cause investors to pull out; Influence elections; Free prisoners; Satisfy vengeance.

Some terrorist groups have used a series of goal-oriented attacks to wear down the established government and achieve their long-range goals.

LONG-RANGE GOALS: Cause dramatic changes in the government such as a revolution, civil war, or war between nations; Turn the tide favorably for their side during guerrilla warfare; Influence local, national, or international policy decision-making; Gain political recognition as the legal body representing an ethnic or national group.

Terrorism's Changing Nature—The crusaders, criminals, and crazies of the terrorist world are facing stiffer opposition from the governments they are trying to destroy, especially those governments in Europe, the Middle East, and South America. American reaction . . . such as the raid on Libya, is of doubtful effectiveness. The bombing-of-Vietnam syndrome—not very effective in even that war—is like swatting flies with a sledgehammer in the war against terrorism.

Many governments have developed hard-line, no-concessions, no-negotiations policies. More and more targets are being hardened and populations are accepting some restrictions on freedoms in order to enjoy greater security. An example is public acceptance of the airport security measures which were non-existent 20 years ago.

Most terrorist groups share the psychological trait of self-delusion. Terrorists wage fantasy wars. The presumption of "total war against the enemy" permits a level of violence that would otherwise be unacceptable.

Cut off from most contacts with the outside world because of their paranoid, clandestine nature, having only each other to talk to, terrorists have created a complete fantasy world which is very real to

(Continued on page 69)

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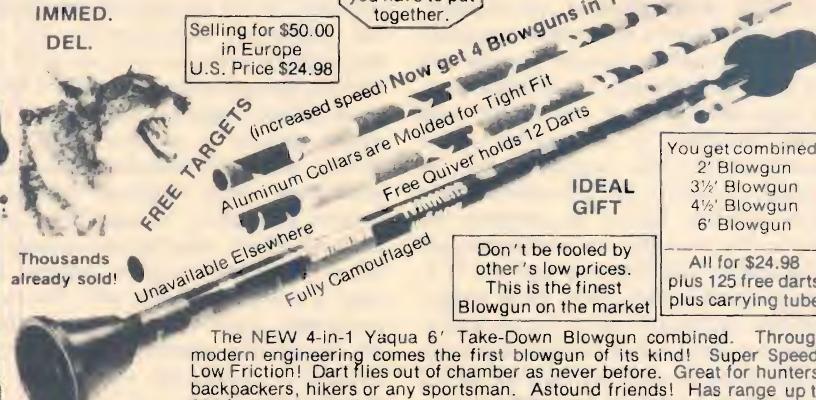
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Terrorist Underground Commands, Columns, Cells

(Continued from page 36)

OPERATIONAL CELLS: The operational cell is the basic action cell of the organization. It is usually composed of from three to five members—including the leader—and operates directly as a unit. Members of the active cadre are found in these cells as the majority of them are in combat cells, or specialized cells in the area of demolitions, sniping, bombs or booby-traps. These are action-oriented cells and are tailored, organizationally, according to the needs of the mission and the type of target involved. The mission and target will also dictate the armament and equipment needed, which may range from pistols, rifles and grenades, to more sophisticated weapons such as rocket launchers. Generally, the choice of targets and the types of operations are limited only by the operational cell's ability to communicate, control, and command the operation.

Some cells, such as specialized sabotage and assassination cells, are kept small—three persons maximum—and remain independent of the rest of the organization, and set up their own communications systems.

Communications between the cell leader and the next higher echelon is seldom, if ever direct. It is accomplished by an intermediary which could be a mail drop or courier. A mail drop could be as simple as leaving messages in a tree trunk. Again, this is part of the compartmentalization effort which ensures security.

INTELLIGENCE CELL: The intelligence cell is unique in that the leader rarely comes in direct contact with the members and the members rarely contact each other. A cell member, for example, who has infiltrated a government organization must act alone. Contact is made only with the leader through intermediaries.

Target intelligence is one of the most critical functions in a terrorist underground. A potential target, human or material, is kept under surveillance for a period of time before the combat cell attacks. For example, an intelligence cell of the Italian Red Brigades kept the U.S. Army general Dozier under close surveillance for months before he was abducted. Plans were obtained of his apartment layout, his route to work his personal habits and routines, as well as his wife's.

AUXILIARY CELLS: These cells are found in the direct, specialized, and active support categories and are less compartmentalized so, as a result, violate many of the rules of clandestine behavior in order to enroll members of the underground. These cells often act as screening devices for new members, testing recruits in minor support tasks before acceptance into the formal terrorist organization.

A typical example of an effective auxiliary cell are those of ASALA, the Armenian

ian Secret Army for the Liberation of Armenia, which uses cell members to levy "taxes and contributions" from the sizable Armenian community in southern California. Another example is the "entertainment" cells of Palestinian folk dancers, who toured parts of the United States in order to raise money for the PLO.

PARALLEL CELLS: These cells are frequently established to support a primary cell. This is done for several reasons; first, it takes a great deal of time to reestablish cells if destroyed and, if there is to be a continuous flow of information from an intelligence cell, for example, then the underground must have a back-up cell. Secondly, in a large national terrorist organization such as the Montoneros in Argentina, duplicate cells are needed as a backup to the intelligence cells to verify pieces of information and to check on the reliability of sources. Parallel cells may operate as infiltration cells in a legal government organization as a counterpart to a similar cell in the underground's "shadow" government. If the terrorists ever succeed in becoming *the* government, the two cells would merge and form the nucleus of that particular unit of the new government.

The use of parallel cells might be compared to a military organization needing a reserve as a back-up for the main assault force.

CELLS IN SERIES: In order to carry out some of the specialized support functions, such as the manufacture of weapons, supply, escape and evasion, propaganda, and the printing of a clandestine newspaper, a division of labor is required. In the Tupamaros, the Palestinian Liberation Organization, the Irish Republican Army, as well as other large terrorist groups which operate in a specific geographical region, clandestine workshops operate to produce small arms, bombs, and other weapons. Materials are purchased from regular commercial sources and taken to legal overt shops, each of which manufacture components for a particular weapons system. Each shop is a manufacturing cell. The various component parts are brought together to the clandestine assembly plant where the weapon is assembled and tested. The operational cells, as well as entire manufacturing operation are organized into a series of specialized functions with a management command cell ensuring that the entire process is secure and runs smoothly. Only the leaders at the highest command levels in the organization have a "total picture" of the cells-in-series production system.

They are also the keepers of the records of material, storage, transportation, and the location of the various parts needed throughout the process. Each stage of manufacturing—the "mini-factory"

cells—has its own intelligence cell in order to act as a lookout or sniff out sources of needed materials.

Struggle For Definition—Terrorist groups the world over organize with one primary goal in mind: to erode the credibility of the government they are attacking with the ultimate objective of overthrowing the target government and imposing their own choice of a political system whether it be Marxist, Islamic, or fascist. Many of these groups are part of the Marxist revolutionary process going on in many countries throughout the world. Many are part and parcel of the Cuban-inspired Tri-Continental Movement which is dedicated to Marxist terrorist revolutionary endeavors on three continents: Africa, Asia, and South America.

Terrorism has always been considered a legitimate and necessary tactic by Marxists in the building of a revolutionary movement as one of the stages just preceding the initiation of formal guerrilla war.

Each terrorist considers himself a patriot; a freedom fighter. He or she is fighting a Holy War or a struggle for a just cause. They have no problem in defining who they are or what they stand for.

In the Western democracies, and particularly the United States, however, there is still no single definition of terrorism which all can agree to, in fact, one man's terrorist is another man's freedom fighter to many segments of the U.S. population. Some of the more acceptable definitions are:

Violence for effect . . . not primarily for the physical effect on the actual target, but rather for its dramatic impact on the audience—Brian Jenkins, RAND Corporation;

The threat or use of violence for political purposes by individuals or groups, whether acting for or in opposition to established government authority, when such actions are intended to shock or intimidate victims—National Foreign Assessment Center;

Violent criminal behavior designed primarily to generate fear in the community for political purposes—Disorders and Terrorism: National Advisory Committee on Criminal Justice Standards and Goals, Law Enforcement Assistance Administration, 1976.

A society which cannot even agree as to what terrorism is will be hard put to come up with a unified agreement as to what constitutes an effective counter-terrorist policy.

In the meantime, the open societies of the free world—societies built on the basis of trust as was Uruguay's—face the awesome challenge of dealing with the totally unfamiliar—the clandestine terrorist underground organization based on commands, columns, and cells. ●

Crusaders

(Continued from page 67)

them. Their organizations are often extravagant assertions where small cells become brigades, and their small group becomes an army. They become "field marshals and generals" of invisible legions. They believe themselves to have masses of supporters or potential supporters on whose behalf they claim to fight, but their constituencies, like their military formations, are largely imaginary.

Terrorists often fall prey to their own propaganda. They over estimate their own strength, the weakness of their enemy, and the imminence of victory, yet they continue to wage their own version of warfare against the democratic West, for to quit, is not simply to admit defeat, but to admit that their existence is irrelevant. Their self-deluding struggle remains a justification for violence.

As governments become tougher, and the public becomes more and more desensitized to terrorist violence, terrorists have to resort to bolder and bloodier acts. Recently, their outrages have escalated in horror in order to stay in the headlines and to recover the coercive power which they once had over the many governments of the world which were under attack.

Terrorists have also become more proficient. Their grasp and use of destructive technology has kept pace—even superceded—that of some governments. More callous men and women have replaced the older generations of terrorists who, at one time, debated the morality and utility of their actions. To many of the "new breed" of terrorist, it's not the winning or the losing that's important, it's playing the game. These harder terrorists are action oriented rather than goal oriented in many cases. Terrorism becomes an end in itself because living a dangerous, clandestine existence underground, building bombs, oiling and maintaining weapons, endlessly planning and carrying out new acts of violence, fulfills some inner psychological need.

The social and psychological dynamics of terrorist groups is constantly in flux. The analytical skills of a psychologist and sociologist are becoming as important as the killing skills of a SWAT team. Terrorists see themselves as soldiers, waging war, but a different kind of war—far different than any conflict our policy-makers have faced in the past.

Those leaders who are now in the process of forging our counter-terrorist response my well ponder the following:

"The first, the greatest and most decisive act of the judgment which a statesman and commander performs, is that of correctly recognizing the kind of war he is undertaking, of not taking it, or wishing to make it, something which by nature of the circumstances, it cannot be."—Karl Von Clausewitz . . . ON WAR. •

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The Tactics Of Terror

(Continued from page 38)

or explosives are usually placed in the target area beforehand, but in some cases they may be carried with the assault team. Movement to the target may be by individuals or by the group as a whole by transportation placed within a reasonable distance to the target area prior to movement. Once at the target area, the individual team members move to their assigned positions.

ATTACK: This is when the violence begins. Using the element of surprise, the terrorist assault team will detonate the bomb, shoot the diplomat, or rob the bank. All personnel in the group are now fully committed to the action and at this time, the action by the group will be precisely timed to keep the event moving. The execution of the strike will be as dramatic as possible: remember . . . terrorist acts are theater. Once the attack is completed, the next phase depends on whether hostages were taken during the assault. There may be a climax phase, or the terrorists may move into a negotiated phase.

NEGOTIATION PHASE: This phase may or may not follow the attack phase. The negotiation phase takes place in hostage taking or kidnapping situations, causing a protracted terrorist incident. During this phase, the terrorist leader usually presents the demands of the group. These demands are often for the release of the jailed terrorists and, their release is a condition for further negotiations under the threat of death of the hostages. Compromises are frequently made when the survival of the terrorist group becomes the main point of the negotiations. These negotiations must be open ended at all times to help end the incident without the loss of hostage lives.

CLIMAX PHASE: This phase will follow the initiation phase if no negotiation phase is implemented. Such is the case of bombings, assassinations, or any incidents in which an assault is conducted and no hostages are taken or kidnapping occurs. The beginning of the climax phase is usually marked by the withdrawal of the terrorists from the target area. There is no specific length of time set for this phase of the operation. Security is usually at its peak and law enforcement radios are closely monitored.

POST—INCIDENT PHASE: It is during this phase that the members of the assault team relocate and regroup to critique their mission. Mistakes which were made are identified for further implementation. Then the cycle begins again. Lessons learned are important factors in all terrorist activities. Successful tactics are employed again and the exploration of these successes is of paramount importance.

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The Tactics Of Terror

ular terrorist movement operates usually dictates the kind of tactics which they will employ. Also, the mission, the target, and the level of technical expertise found in the group will have an influence on the tactics employed. The following tactics, however, are the most common of terrorist groups throughout the world, whether they be Crusaders, Criminals, or Crazies.

BOMBINGS: The tactic used by most terrorist movements is bombing. Sixty-seven percent of all terrorist incidents recorded during the last decade involved bombs. The bomb is a popular weapon because it is cheap to produce, easy to make, adaptable to a variety of uses, difficult to detect and trace after the event and, perhaps, the most dramatic and media-attracting.

The increase in the number of bombings in Europe and the United States, and the use of more sophisticated explosive devices, has caused the NATO Explosive Ordnance Disposal (EOD) Standardization Committee to classify all terrorist bombs as IED (Improvised Explosive Device). Although improvised, they are often well designed and, at times, superior to those of the armed forces. IEDs may be further classified by delivery means, activation means, or by usage. Whatever the type of IED, the terrorists will often use it merely to establish credibility . . . a message that means "We exist and we can inflict harm." Once their credibility has been established, they can continue to disrupt, though not destroy, by using well-made bomb hoaxes. The right proportion of hoaxes to live IEDs can tie security forces up in knots and tends to create panic and fear in the minds of the populace.

ARSON: Although not the most popular terrorist tactic, arson is used to destroy or disrupt such targets as public utilities, political headquarters, and economic-industrial targets such as shops, factories, and hotels. The most popular method of setting fires is with a time-delayed incendiary device, often carried in a cigarette pack or cassette tape container. The devices are easy to transport and, once planted, very difficult to detect. As with bombs, these devices are extremely cheap and easy to make. Arson, as a terrorist tactic, is perhaps the most cost-effective.

HIJACKING: Hijacking and skyjacking were very popular with terrorists during the 1960s and early 1970s. The hijacking of vehicles carrying staple foods was a favorite tactic of the Tupamaros of Uruguay in order to develop a Robin Hood image while dispensing the food to poor neighborhoods as a form of armed propaganda. The media treatment of the hijackers was bound to create positive feelings among the viewers and, of course, especially

(Continued on page 72)



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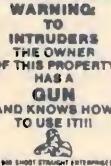
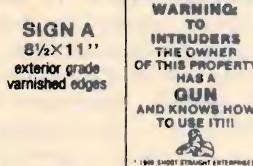
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The Tactics Of Terror

(Continued from page 71)

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ASSASSINATION: Assassination, as a preferred tactic, is perhaps the oldest. Indeed, the word "assassin" is rooted in the Islamic Assassination movement in Iran in the 13th century. Terrorists traditionally have operated against government officials, security officers and corporate executives. In the last decade, over 246 terrorist assassinations worldwide (excluding Northern Ireland) have been recorded. Assassination techniques are only limited by the imagination of the terrorist.

AMBUSH: Terrorist ambushes seldom fail because they are generally well thought out, properly rehearsed, and precisely executed. Terrorist ambush plans often include diversions, and the use of lay-off teams to waylay counter-terrorist efforts. They have the tremendous advantage of having time on their side, so they can spend weeks or months preparing an operation. They can also choose the time and place of an ambush.

KIDNAPPING: Unlike hostage-taking, kidnapping is most often a covert act. The identities of the kidnappers are unknown, and the kidnapping is preceded by considerable planning and preparations. The objective of the kidnapping is usually far beyond that of the immediate victim. The kidnapping is used to reach an audience beyond the victim or his/her relatives. It may be conducted in order to gain funds for a future terrorist operation, to gain the release of imprisoned terrorists, or to obtain political concessions. The case of Gabriele Krocher of the 2nd June Movement is illustrative of political motives. Krocher was imprisoned for shooting a German policeman. Her terrorist comrades kidnapped a prominent German political official and held him until the German government agreed to free Krocher and five other terrorist prisoners.

HOSTAGE-TAKING: There is a slim difference between the tactic of kidnapping and that of hostage-taking, in fact, the two terms are often used synonymously. The kidnapper, however, usually confines the victim in a clandestine hideaway, often called a "People's Prison," and makes material demands in the form of money or weapons, whereas the hostage-taker confronts authorities and openly holds the victims for ransom. Political concessions are frequently demanded in exchange for the lives of the hostages. Hostage-taking is an effective technique because it attracts the media. It is "street theater" and the drama of the event is increased because human lives are at stake. Because of this, pressure can be applied by the terrorists—through the vehicle of the media and public opinion—on the government to cave in to terrorist demands. It seems, in hostage situations,

that the government is always the actor that is forced to be the moral example "in the name of humanity" and make the concession.

To the terrorist, the hostage doesn't count. He or she is nothing more than a tangible asset to bargain with.

ROBBERIES/EXPROPRIATIONS: Expropriation is a term coined by Lenin in the early 1900s. Terrorist operations are expensive, unless you are sponsored by a terrorist sugar daddy like Khadafi. For less affluent terrorists, they must finance their operations by robbing banks and armored bank vehicles. Bank robberies are often used as "graduation" exercises by apprentice terrorists. A bank robbery is considered a tactical operation, preceded by reconnaissance and planned escape routes, and they are conducted with a high degree of competence. Disguises and automatic weapons are usually used, as well as sawed-off shotguns, as intimidation devices. Attacking a bank is viewed as a legitimate expropriation of funds from an "imperialist anti-people's" organization. In this type of tactic, the terrorists consider themselves as revolutionaries rather than criminals.

Probability of Success—Are these tactics successful? A RAND Corporation study of terrorist incidents over a six year-

period of time revealed that unless deterred, terrorist attacks would continue and, indeed, escalate in the future. The following probabilities of risk and success are the result of that study. There was:

An 87 percent probability of actually seizing hostages if that was their goal;

A 79 percent chance that members of a terrorist team would escape punishment or death whether or not they successfully seized hostages;

A 40 percent chance that all or some demands would be met in operations when something more than safe passage or exit permission was demanded;

A 29 percent chance of compliance with such demands;

An 83 percent chance of success when safe passage or exit, either for the terrorists themselves or for others, was the sole demand;

A 67 percent chance that, if the principal demands were rejected, all or nearly all of the terrorist team could still escape by going underground, accepting safe passage in place of their original demands, or surrendering to a sympathetic government;

An almost 100 percent probability of gaining major publicity whenever that was one of the terrorists' goals and . . . it usually is.

Media's Role—The future successes of terrorist tactics depends, not only upon an effective counter-terrorist response, but the role of the media in the democratic nations of the West.

The power of the media, for good or bad, is undeniable. The free media is an absolutely indispensable communication link in a free society, however, it is obvious that the media, at times, provides terrorist groups with critical assets—the easy access to mass media which willingly, or unwillingly serve their propaganda and psychological warfare needs.

Terrorism is propaganda of the deed—armed propaganda. Most terrorist tactics demand extensive publicity, permitting the terrorists to advertise their deeds, ideologies, and causes to the world.

Esousing their various ideologies and claiming some sort of liberation of the masses, terrorists are becoming increasingly adept at being sensitive to the manipulation of the mass media requirements to project them on television and in the press.

Most terrorist organizations of any size, savvy, and influence have at least one member of their planning staff who is a "media specialist." It is he or she who builds a media manipulation strategy into each terrorist incident. His or her job is to manipulate the media before, during, and after the terrorist act so demands are met and the power of the group is multiplied, and popular support seems massive. ●

Delivery means

The methods of getting a bomb to a target include:

- **Vehicle bombs**—booby-trapped vehicles, attached devices and car bombs (cars filled with explosives).
- **Laid charges**—bombs placed by hand.
- **Projected bombs**—bombs thrown by hand or projected by a mortar device.
- **Postal bombs**.

Activation means

There are essentially three ways to activate an IED. They are:

- **Command activation**—by radio, electric leads, pull wire, or mechanical strikers.
- **Action by the subject/target**—trip wire, pressure device, light sensitive device, electric switch.
- **Time delay**—clock, burning fuse, chemical delay, atmospheric pressure.

Usage

There are two broad classifications:

- **Tactical IEDs**—normally IEDs used against an individual include nail bombs, claymore devices, and culvert bombs. In fact, any IED can be classified as a tactical IED.
- **Strategic IEDs**—those IEDs used indiscriminately to gain world attention; for example, in crowded shopping centers, on aircraft, and so on. They are those bombs designed to strike at society, the government, and the economic base.

MAIL CALL.

Israeli Gas Masks

In response to the reader's letter in your January 1987 issue questioning why there are so many Israeli surplus gas masks on the U.S. market and why the price has come down so much, the prices and availability of these masks seem too good to be true. But the masks and filters are good for CBR use and the price is good because the Israeli government has no use for the masks, which they are replacing. Recently, Israel adopted a new mask which has a much wider eye piece allowing better vision. They will probably also adopt new, tougher filters with larger capacity. Because military forces need time to obtain money for new equipment, they can't wait for it to deteriorate before replacement. They must replace old but good equipment with new equipment. Thus the Israeli surplus masks, which are still in excellent shape, are now flooding the U.S. surplus market. These masks don't have as wide a field of vision as the new ones and the filters don't last as long as the new filters, but given the price of new masks, most survivalists are willing to put up with these slight limitations. The charcoal in the surplus mask filters is impregnated with chemicals (probably copper, chromium and silver salts) rather than using soda lime or silica gel. Because of this, the chemicals won't be apparent when the filter is dismantled. Impregnated charcoal is capable of absorbing/neutralizing all known chemical weapons as well as radioactive gases which could be found in the aftermath of a nuclear conflict. In addition to the filtration action of the charcoal particles on bacteria and viruses, the filter element removes organic matter which might be used as biological weapons. Store the filters in cool, dry places; heat and moisture ruin filters. Keep seals intact until filters are used. Avoid vibration of the filters which could break the carbon into dust. In dusty environments, use a pre-filter of gauze or other material taped over the intake vent to prolong life.

Duncan Long

Thanks for the elaboration, Duncan.

Arming Potential Terrorism Victims

The December 1986 issue's "To The Point" was a fine article. Since the airlines can't protect their passengers, the passengers should be able to protect themselves. I know I would rather fight for my life than be maimed or killed by terrorist scum of Khadafy's ilk, or passively wait for the stun grenades and tear gas to hit in prelude to a bloodbath. Perhaps if terrorist dirtbags knew they might meet their match instead of running roughshod over unarmed innocents, they would cease their cowardly acts of violence.

Bud Dunlap

Wilson, North Carolina

Your support for the editor's proposal that some properly trained and certified travelers who are potential terrorist victims be allowed to travel armed is appreciated, Bud. We're so tired of learning about the latest batch of unarmed victims being slaughtered in the latest terrorist outrage. This could make terrorist attacks far more dangerous for terrorists.

Basement Shelter

I have plans to build a house and would like to design my basement as a fallout shelter for a family of six. I would like some information on how to do this, and also some information on rations, equipment and the recommended time period for staying in the shelter after a nuclear attack.

Nick Scochemaro

Spring Valley, New York

There are numerous advertisers and articles in ASG which provide the information you seek, Nick. In recent issues, for example, we've reviewed books on surviving nuclear war: The Nuclear Shelterist, Nuclear War Survival, and others. Our advertisers carry many books on the subject, along with all the equipment and supplies you should need. See our last three issues for some ideas and do as much research on your own as you can before you set to work designing and building your shelter.

Educational Features

I was compelled to write a note of appreciation telling you how important and educational your magazine is to my family. Today, my 11-year-old daughter Michele brought your July 1986 issue to me asking "What is wrong with this picture?" She was referring to the cover photo of the camping scene. After scanning the cover, I said, "You tell me." Michele stated, "Look, those people are camping in the open and can be seen." Further, she stated that they should be utilizing the cover of the trees in the photo's background for cover. It's amazing the knowledge that children can acquire from reading. ASG is the most anticipated and read subscription we have. I sincerely appreciate your family oriented publication and the broad spectrum of educational features that appear monthly.

Ron Trimble

Modesto, California

Interesting. Of course, the cover photo of that camping scene was for illustration purposes only. There may be times when you would want to camp unobserved and times when it would not matter. Thanks for the compliments and your interest in the magazine. ●

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ABOVE—Use of the MX-991/U military anglehead flashlight fitted with infrared filter enabled the users to walk and see in total darkness without any problems.

LEFT—Supplied with the goggles are a high-impact plastic carrying case with strap and foam rubber padding, military anglehead flashlight, two infrared filters and operators manual (not shown).

RIGHT—When the mercury battery is placed in the center tube of the goggles and the switch on that tube is turned to "on," you hear a high pitched hum, indicating the goggles are functioning properly. Rubber caps protect light-sensitive lenses from damage.



THE AN/PAS-5 infrared night vision goggles were used by U.S. forces in Vietnam and by the Israeli Army in desert warfare and counter-terrorist campaigns.

This device enables the user to operate vehicles, scan terrain, read road signs, operate machinery and perform many other tasks in total darkness. The goggles are worn over the head for hands-free operation. The user sees by available infrared light. A flashlight, vehicle headlight

or other light source fitted with one of two filters supplied with the AN/PAS-5s provides the light to use them by. This light appears green to the user but is not visible to the naked eye.

Weighing just 11 ounces, the goggles are powered by a mercury battery supplied with them which allows approximately 100 hours of night vision. Extra batteries are available for \$7 each postpaid from the retailer, The Dutchman of Overland Park,

Kansas. The lenses must never be exposed directly to any light source, as this damages them. They come with removable rubber caps.

The filters convert ordinary light into infrared light visible only to those with the goggles or infrared filters. Focus is from about 10 inches to infinity. The effectiveness of the goggles is determined by the power of the light source. The stronger the light, the better you see with the goggles.

ASG's staff tried out the AN/PAS-5 goggles and found that they worked quite well. We were able to see well enough using the MX-991/U military flashlight with infrared filter supplied with the goggles to travel on foot over fairly rough terrain in complete darkness without so much as a stumble. The goggles are comfortable to wear. They fit snugly to a user's head with Velcro straps supplied with them.

They are easy to operate. You merely flick on the switch between the two lenses —once the battery is in place—and adjust each lens to your eyes with a lever on each eye tube.

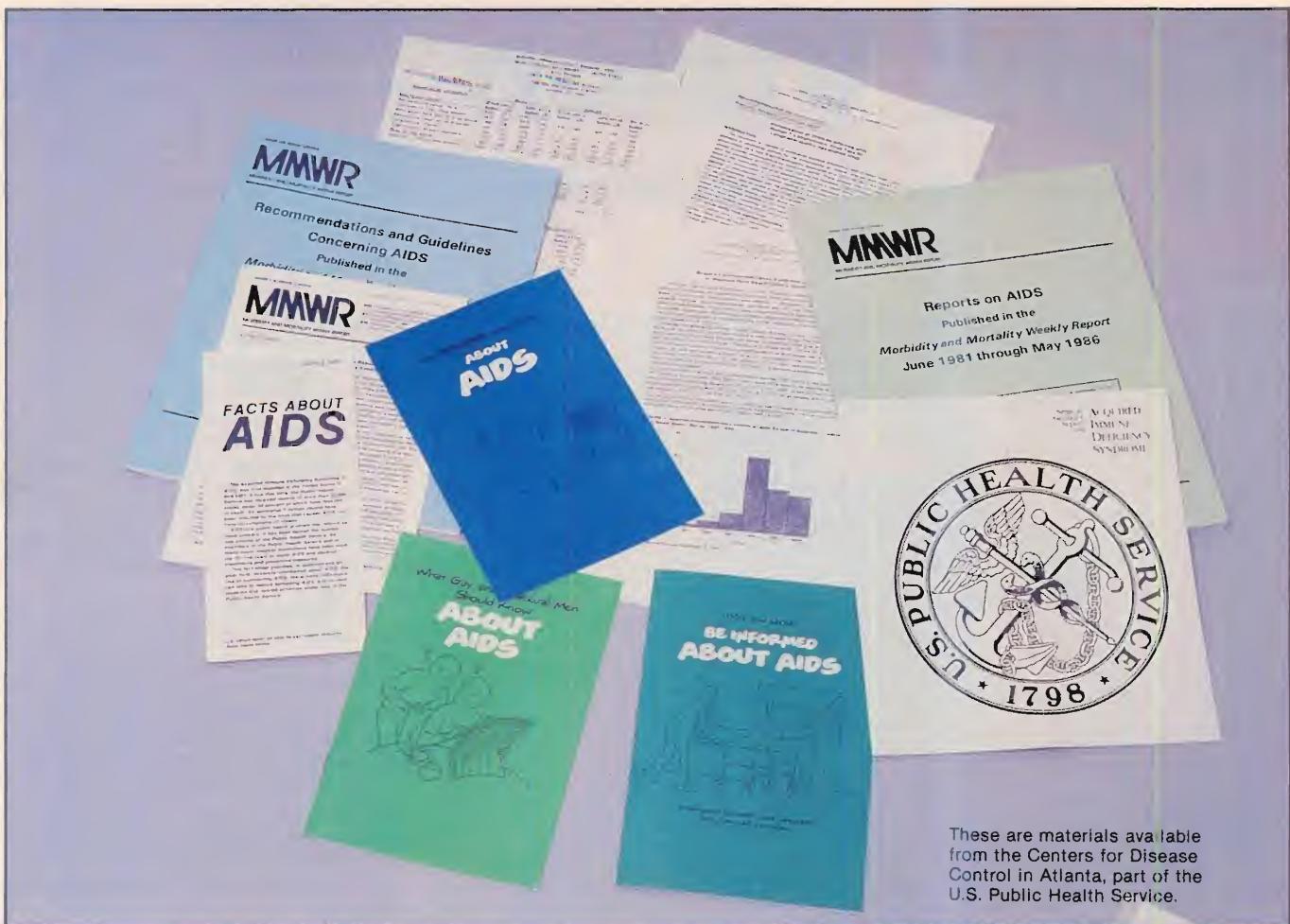
The AN/PAS-5 infrared goggle binoculars come with a rugged, high-impact plastic carrying case with shoulder strap and foam rubber padding, close-up lens assembly (focusing levers), light restriction caps, operating manual, mercury battery, infrared flashlight filter and infrared filter for car headlight, spotlight or other high intensity light source which measures 5 3/8-inches in diameter, MX-991/U military anglehead flashlight with color filters and extra bulb, and Velcro head strap assembly.

The entire unit is available for \$347 postpaid from The Dutchman, Dept. ASG, 9071 Metcalf, Suite 158, Overland Park, KS 66212; phone toll free for VISA and Mastercard orders (800) 821-5157. •



Foam padding around the inside of the goggles provides a comfortable fit. Velcro straps adjust to each user's head for snug fit and hands-free operation.

U.S. Public Health Service:



These are materials available from the Centers for Disease Control in Atlanta, part of the U.S. Public Health Service.

AIDS Update

The latest available information to help you avoid this killer . . .

By Jim Benson

WHEN we last reported on the AIDS (Acquired Immune Deficiency Syndrome) epidemic in the December 1985 issue of *ASG*, some 14,000 cases had been diagnosed in this country. At that time the U.S. Public Health Service's Centers for Disease Control (CDC) in Atlanta predicted that figure would roughly double to 26,000 cases by the end of 1986.

CDC figures as of the end of October 1986 show that that prediction has indeed come true. As of Oct. 27, 1986, there were a total of 26,875 cases reported to the CDC — actually more than were predicted. The 26,875 AIDS cases included 10,920 new cases discovered since Jan. 1, 1986.

In this article we'll pass along some of the latest information available on this fatal disease, including projections for the future, what is known about how AIDS is transmitted, and what you can do to avoid

it. The information we have is drawn from materials provided by the CDC. Most of the information in this article is taken from U.S. Surgeon General C. Everett Koop's report on AIDS.

"Today those practicing high risk behavior who become infected with the AIDS virus are found mainly among homosexual and bisexual men and male and female intravenous drug users. Heterosexual transmission is expected to account for an increasing proportion of those who become infected with the AIDS virus in the future," according to the surgeon general.

"At the beginning of the AIDS epidemic many Americans had little sympathy for people with AIDS," Koop states. "The feeling was that somehow people from certain groups 'deserved' their illness. Let us put those feelings behind us. We are fight-

ing a disease, not people. Those who are already afflicted are sick people and need our care as do all sick patients. The country must face this epidemic as a unified society. We must prevent the spread of AIDS while at the same time preserving our humanity and our intimacy."

AIDS is a life-threatening disease and a major public health issue, according to the report. Its impact on our society is and will continue to be devastating. By the end of 1991, an estimated 270,000 cases of AIDS will have occurred with 179,000 deaths within the decade since the disease was first recognized.

In the year 1991, an estimated 145,000 AIDS patients will need health and supportive services at a total cost of between \$8 and \$16 billion.

However, AIDS is preventable. It can be controlled by changes in personal behavior, and it's the responsibility of every citizen to be informed about AIDS and to exercise the appropriate preventive measures.

There is no cure for AIDS, and it is spreading at alarming rates in this country and much of the rest of the world. The number of people estimated to be infected with the AIDS virus in the United States is about 1.5 million. All of these people are assumed to be capable of spreading the

virus sexually (heterosexually or homosexually), or by sharing needles and syringes or other implements for intravenous drug use. Of these, an estimated 100,000 to 200,000 will come down with AIDS Related Complex (ARC), a condition similar to AIDS but often with less severe results than classic AIDS.

It's difficult to predict how many will develop ARC or AIDS since it can take up to nine years after exposure to develop the diseases. Scientists predict that 20 to 30 percent of those infected will develop an illness fitting the definition of AIDS within five years. About half of those known AIDS cases have died and the rest are expected to die.

The majority of those infected individuals who carry the AIDS virus show no disease symptoms and may not come down with the disease for many years, if ever. But they are capable of infecting others who may develop AIDS.

The AIDS virus attacks a person's immune system and damages his/her ability to fight other diseases. Without functioning immune systems, these people are vulnerable to infection by bacteria, protozoa, fungi and other viruses and malignancies, which can lead to life-threatening illnesses, such as pneumonia, meningitis and cancer. The AIDS virus enters the bloodstream and attacks white blood cells. Substances called antibodies are produced by the body and a simple test can show infection by the AIDS virus, usually two weeks to three months after infection. Even before an antibody test, though, the victim can pass the virus to others.

Once infected, some people may remain well but even so they are still able to infect others. Others may develop ARC. In some people their protective immune system may be destroyed by the AIDS virus and

then other bacteria, protozoa, fungi or other viruses and cancers that ordinarily would never get a foothold cause "opportunistic diseases"—using the opportunity of lowered resistance to infect and destroy. Some of the most common are *Pneumocystis carinii* pneumonia and tuberculosis. Those infected with AIDS may also develop certain cancers such as Kaposi's sarcoma. These people have classic AIDS. Evidence shows that the AIDS virus may also attack the nervous system causing brain damage.

Avoidance—Knowing the facts about AIDS can prevent its spread. Education of those at risk who may infect others is the only way known at present to stop AIDS. Essentially, people must be responsible about their sexual behavior and avoid use of illicit intravenous drugs and needle sharing. The AIDS virus infects people who expose themselves to known risk behavior, such as certain types of homosexual and heterosexual activities or sharing intravenous drug equipment.

Male homosexuals and bisexuals are especially at risk. They make up about 70 percent of the known AIDS cases in this country. This figure is expected to decline now that AIDS is spreading to the heterosexual population.

The risk of infection increases according to the number of sexual partners one has, male or female. The more partners you have, the greater the risk of becoming infected with the AIDS virus.

Although the AIDS virus is found in several body fluids, a person acquires the virus during sexual contact with an infected person's blood or semen, and possibly vaginal secretions. The virus then enters a person's blood stream through

(Continued on page 78)

Projected Cases of AIDS* United States

CATEGORY	1986	1991	1991 Range
Cases Diagnosed			
Cumulative cases at start of year	19,000	196,000	155,000 to 220,000
Diagnosed during year	16,000	74,000	46,000 to 91,000
Alive at start of year	10,000	71,000	50,000 to 83,000
Alive during year	26,000	145,000	96,000 to 180,000
Deaths			
Cumulative deaths at start of year	9,000	125,000	103,000 to 137,000
Deaths during year	9,000	54,000	37,000 to 64,000
Cumulative deaths at end of year	18,000	179,000	142,000 to 201,000
Infections			
Persons with HTLV-III/LAV (AIDS) infection	1,000,000 to 1,500,000 <i>(estimate)</i>		

*These numbers refer only to those cases that meet the CDC definition for AIDS (see *Morbidity and Mortality Weekly Report*, 1985: 34:373-5) and do not include other manifestations of infection, such as AIDS-Related Complex and lymphadenopathy syndrome.

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AIDS Update (Continue from page 77)

their rectum, vagina or penis.

If you or your partner is at high risk, avoid mouth contact with the penis, vagina or rectum; avoid all sexual activities which could cause cuts or tears in the linings of the rectum, vagina or penis and use condoms; young people should learn to say no to drugs and sex to avoid exposure to the AIDS virus; do not have sex with prostitutes—infected male and female prostitutes are frequently also intravenous drug abusers and they may infect clients by sexual intercourse and other drug abusers by sharing their intravenous drug equipment; infected women also can infect their unborn babies.

Users of intravenous drugs compose about 25 percent of the AIDS cases in this country. The AIDS virus is carried in contaminated blood left in the needle, syringe or other drug related implements shared by drug users. No one should shoot up drugs. Addiction, poor health, family disruption, emotional disturbances and death can result.

Some hemophiliacs and others who have received blood transfusions before screening procedures were developed to prevent the contamination of donated blood with AIDS virus have developed AIDS, but this is not a problem today.

Everyday living does not present a risk for exposure to AIDS. You cannot get AIDS from casual social contact—not to be confused with casual sexual contact. Sharing of living quarters, use of bed linen, towels, eating utensils, etc. do not cause AIDS. But you should avoid any contact with blood or semen of infected persons as a preventive measure.

At the present time, insects such as mosquitoes are not known to cause AIDS infection, nor is contact with domestic animals such as dogs and cats.

Although AIDS virus is found in tears and saliva of infected persons, no instance of transmission of the virus from these body fluids has been reported. If you are concerned that you may have been exposed to AIDS, see your doctor.

"We cannot yet know the full impact of AIDS on our society," the Surgeon General states in his report's summary. "From a clinical point of view, there may be new manifestations of AIDS—for example, mental disturbances due to the infection of the brain by the AIDS virus in carriers of the virus. From a social point of view, it may bring to an end the free-wheeling sexual lifestyle which has been called the sexual revolution. Economically, the care of AIDS patients will put a tremendous strain on our already overburdened and costly health care delivery system."

Education and avoidance are the keys to preventing further spreading of AIDS. For more information, contact your local health professional or the Public Health Service. ●

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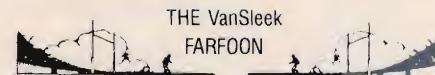
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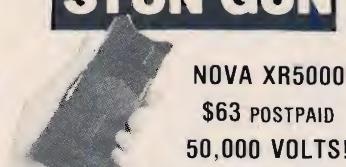
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